CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 19, 1905.

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CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

CIVIL ENGINEER.—U. S. Civil Service Commission will hold an examination Feb. 15-16 at various places throughout the country, to secure eligibles to fill four vacancies at $1,200 per year each, and two vacancies at $1,400 per year each, in the position of civil engineer, Philippine service, and vacancies as they may occur in that service requiring similar qualifications.

PANAMA CANAL EMPLOYEES.—U. S. Civil Service Commission will hold an examination on Jan. 30, at various places throughout the country, to fill existing vacancies in the following named positions on the Isthmus of Panama under the Isthmian Canal Commission: Assistant Civil Engineer, salaries, $200, $225 and $250 per month; instrumentman, salary, $175 per month; levelman, $100 to $125 per month; rodman, $75 and $83.33 per month; chainman, $60 per month; helper, $50 per month. Information concerning the conditions of employment under the Isthmian Canal Commission were given on page 527 of the December 8 issue of Engineering News.

HYDROLOGIC AID.—U. S. Civil Service Commission will hold an examination Feb. 18 to fill two vacancies, at $1,000 to $1,200 per year each, in the position of hydrologic aid, Geological Survey, and the vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants for this position should have a knowledge of general geology and the geology of oil, gas, and underground water, and of the methods of well drilling and collection of boring samples. They should also be familiar with the keeping and reporting of records and with office methods of arrangement and storage of samples, and with business methods as applied to correspondence and filing.

MECHANICAL TRADES.—U. S. Civil Service Commission has issued a circular containing instructions to applicants for mechanical trades and other non-educational examinations in the Quartermaster's Department at Large, Departmental and Indian Services. No educational tests are required in these examinations, the only subjects considered are age, physical condition and experience. Registers will be established quarterly on or soon after Jan. 1, April 1, July 1, and Oct. 1, as may be practicable. Some of the positions that come under the above head are those of stationary engineer, marine engineer, machinist, blacksmith, carpenter, foreman of building, mason, toolmaker and wheelwright.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Dec.				
Jan.				
*23	Water-wks, etc.	Louisburg, N.C.	S.	1-12
*25	Water-works, etc.	Oxford, N. C.	P. & S.	1-12
*28	Electric fixtures.	Cheyenne, Wyo.	S.	12-20
28	Latrines.	Washington, D. C.	S.	1- 5
29	Switchboard.	Washington, D. C.	S.	1- 5
Feb.				
4	Shears.	Washington, D. C.	S.	1- 5
4	Latrine.	Charleston, S. C.	S.	1-12
*4	Dredging, docks.	Chicago, Ill.	S.	1-12
*6	Machinery.	Washington, D. C.	S.	1-12
11	Crane runways.	New York.	S.	1-19
11	Electric elevator.	Wash., D. C.	S.	1-19
*15	Barracks.	Ft. Wright, Wash.	P. & S.	1-19

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Jan. 21. Electric system, St. Paul, Minn. ..... Jan. 12
Jan. 23. Electric station, Denmark ..... Jan. 12
Jan. 24. Gas franchise, Oceanside, Cal. ..... Dec. 22
Jan. 21. Electric system, Ft. Snelling, Minn. ..... Jan. 5
Jan. 24. Electric system, Newport, R. I. ..... Jan. 5
Feb. 2. Power boilers, Columbus, Ind. ..... Jan. 12
Feb. 15. Generators, Chicago, Ill. ..... Dec. 22

BRIDGES.

Jan. 19. Bridge, Toledo, O. ..... Jan. 5
Jan. 19. Bridge, repair, New York, N. Y. ..... Jan. 12
Jan. 19. Bridge, Toledo, O. ..... Jan. 12
Jan. 24. Bridge, steel, Perry, Okla. ..... Jan. 19
Jan. 24. Bridges, Aberdeen, S. Dak. ..... Jan. 19
Jan. 25. Bridge, Norwalk, Conn. ..... Jan. 19
Feb. 6. Bridge, Santa Barbara, Cal. ..... Jan. 5
Feb. 6. Bridge, Santa Barbara, Cal. ..... Jan. 12
Feb. 6. Bridges, Topeka, Kan. ..... Jan. 12
Feb. 7. Bridges, steel, Muscatine, Ia. ..... Jan. 12
Feb. 7. Viaduct, Wabash, Ind. ..... Jan. 19
Feb. 7. Bridge, repair, Binghamton, N. Y. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 7. Bridge, Indianapolis, Ind. ..... Jan. 19
Feb. 7. Bridge, Stockton, Cal. ..... Jan. 19
Feb. 8. Bridge, Vincennes, Ind. ..... Jan. 19
Feb. 8. Bridges, Phoenix, Ariz. ..... Jan. 19
Feb. 14. Bridges, stone, Napa, Cal. ..... Dec. 29
Feb. 20. Bridge, steel, Culpeper, Va. ..... Jan. 19

BUILDINGS.

Jan. 19. Post buildings, Ft. Meade, S. Dak. ..... Jan. 5
Advertised, Eng. News, Jan. 5 and 12.
Jan. 19. Post office, Fresno, Cal. ..... Dec. 8
Jan. 19. Fifteen buildings, Ft. Des Moines, Ia. ..... Dec. 29
Jan. 20. Officers' quarters, New York, N. Y. ..... Dec. 29
Jan. 20. Building, Ft. Logan Roots, Ark. ..... Dec. 29
Jan. 23. School, Cincinnati, O. ..... Jan. 12
Jan. 23. Electric fixtures, Indianapolis, Ind. ..... Jan. 12
Jan. 23. School, New York, N. Y. ..... Jan. 19
Jan. 23. School, Cincinnati, O. ..... Jan. 19
Jan. 24. High school, Galena, Ill. ..... Jan. 19
Jan. 25. School, Boston, Mass. ..... Jan. 19
Jan. 25. Post office, Washington, Pa. ..... Dec. 8
Jan. 26. Brick hospital, Mohave City, Ariz. ..... Jan. 12
Jan. 26. Police headquarters, New York, N. Y. ..... Jan. 19
Jan. 28. Light fixtures, Cheyenne, Wyo. ..... Dec. 29
Advertised, Eng. News, Dec. 29 to Jan. 19.
Jan. 30. Post office, DeKalb, Ill. ..... Jan. 5
Advertised, Eng. News, Jan. 5.
Jan. 30. School, Webster, N. Dak. ..... Jan. 5
Jan. 31. Wiring, Walla Walla, Wash. ..... Jan. 5
Jan. 31. Post office, Albert Lea, Minn. ..... Dec. 8
Advertised, Eng. News, Dec. 8 and 15.
Feb. 1. Court house additions, Goshen, Ind. ..... Dec. 29
Feb. 1. Court house, Ogden, Utah. ..... Jan. 12
Feb. 1. Church, Zanesville, O. ..... Jan. 12
Feb. 1. Armory, Hartford, Conn. ..... Jan. 19
Feb. 2. Fixtures, Lakewood, O. ..... Jan. 19
Feb. 2. Hot water heating, Atlantic City, N. J. ..... Jan. 12
Feb. 4. Academy, Canadaigua, N. Y. ..... Jan. 12
Feb. 4. Electric elevator, Nashville, Tenn. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 6. Court house, Ocala, Fla. ..... Jan. 19
Feb. 6. Heating plant, Fort Mott, N. J. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Jan. 26.
Feb. 7. Post office, Nevada, Mo. ..... Dec. 29
Advertised, Eng. News, Dec. 29 and Jan. 5.
Feb. 7. Jail, Monticello, Miss. ..... Jan. 19
Feb. 9. Barrack, Plattsburg, N. Y. ..... Jan. 19
Feb. 9. Coal shed, Tompkinsville, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 9. Post office, Natchez, Miss. ..... Jan. 12
Feb. 10. Barracks, etc., Fort Howard, Md. ..... Jan. 19
Feb. 14. Steam heating, Batesville, Ark. ..... Jan. 12
Feb. 15. Steam heating, Chillicothe, O. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to 19.
Feb. 15. Barracks, Ft. Wright, Wash. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 9.
Feb. 21. Post office, Westchester, Pa. ..... Jan. 5
Feb. 23. Post office, Decatur, Ill. ..... Jan. 12
Feb. 27. Post office, Columbia, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 28. Post office, Louisiana, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.

WATER SUPPLY AND IRRIGATION.

Jan. 19. Water and sewer mains, San Diego, Cal. ..... Jan. 5
Jan. 20. Water pipe, etc., St. Paul, Minn. ..... Jan. 19
Jan. 21. Water pipe, Lindsborg, Kan. ..... Jan. 12
Jan. 23. Water-works, sewers, Louisburg, N. C. ..... Dec. 29
Advertised, Eng. News, Dec. 29 and Jan. 6.
Jan. 24. Artesian well, Dallas, Tex. ..... Jan. 5
Advertised, Eng. News, Jan. 5 and 12.
Jan. 24. Water & sewer extensions, Riverside, Cal. ..... Jan. 19
Jan. 25. Water-works, Deadwood, S. Dak. ..... Dec. 15
Advertised, Eng. News, Dec. 15.
Jan. 25. Tapping cocks, etc., New York, N. Y. ..... Jan. 12
Jan. 25. Water-works, etc., Oxford, N. C. ..... Jan. 12
Advertised, Eng. News, Jan. 12.
Jan. 28. Boiler, tank, Denver, Colo. ..... Jan. 12
Jan. 28. Water system, Phoenix, Ariz. ..... Jan. 12
Feb. 1. Hydrants, New York, N. Y. ..... Jan. 12
Feb. 6. Pump, well, Jacksonville, Fla. ..... Jan. 19
Feb. 7. Water-works, Chrisman, Ill. ..... Jan. 19
Feb. 8. Water pipe, South Bend, Ind. ..... Jan. 19
Feb. 9. Water supply system, Fort Keogh, Mont. ..... Jan. 19
Feb. 10. Water system, Bishop, Cal. ..... Dec. 15
Advertised, Eng. News, Dec. 8 to 29.

SEWERAGE.

Jan. 19. Sewer system, Iola, Kan. ..... Dec. 29
Jan. 19. Sewers, Toledo, O. ..... Jan. 12
Jan. 19. Sewer, brick, Washington, D. C. ..... Jan. 12
Advertised, Eng. News, Jan. 12.
Jan. 19. Sewer system, San Diego, Cal. ..... Jan. 12
Jan. 20. Sewers, Dayton, O. ..... Jan. 19
Jan. 23. Sewer, Bay City, Mich. ..... Jan. 19
Jan. 24. Sewers, Riverside, Cal. ..... Jan. 5
Jan. 25. Sewer material, Baltimore, Md. ..... Jan. 19
Jan. 26. Sewers, Coldwater, Mich. ..... Jan. 5
Advertised, Eng. News, Jan. 5 and 12.
Jan. 30. Sewage disposal system, Wash., D. C. ..... Jan. 12
Advertised, Eng. News, Jan. 12.
Jan. 31. Sewers, water pipe, etc., New Orleans, La. ..... Nov. 24
Advertised, Eng. News, Nov. 24 to Jan. 19.
Feb. 1. Sewers, Cresco, Ia. ..... Dec. 29
Feb. 1. Sewer system, Palatka, Fla. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to 26.
Feb. 3. Sewers, St. Bernard, O. ..... Jan. 19
Feb. 7. Sewer, Los Angeles, Cal. ..... Jan. 5
Feb. 10. Sewer system, Bishop, Cal. ..... Dec. 15
Advertised, Eng. News, Dec. 8 to 22.
Feb. 15. Sewer system, Lunenburg, N. S. ..... Jan. 12
Feb. 15. Sewers, New Rochelle, N. Y. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to 26.

STREETS AND ROADS.

Jan. 21. Macadamizing, Emeryville, Cal. ..... Jan. 5
Jan. 21. Macadamizing, Sussex, N. J. ..... Jan. 5
Advertised, Eng. News, Jan. 5 to 26.
Jan. 22. Road, shell, Fort Mott, N. J. ..... Jan. 12
Jan. 23. Road, San Bernardino, Cal. ..... Jan. 19
Jan. 25. Paving, etc., Baltimore, Md. ..... Jan. 19
Jan. 25. Paving, Buffalo, N. Y. ..... Jan. 19
Jan. 25. Paving, brick, Cleveland, O. ..... Jan. 12
Jan. 26. Paving, etc., Cortland, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12.
Jan. 27. Walks, concrete, Fort Moultrie, S. C. ..... Jan. 19
Jan. 27. Paving, St. Louis, Mo. ..... Jan. 19
Jan. 30. Grading, Los Angeles, Cal. ..... Jan. 19
Jan. 31. Road, Harrisburg, Pa. ..... Jan. 12
Feb. 1. Paving, Cincinnati, O. ..... Jan. 19
Feb. 2. Paving, Cincinnati, O. ..... Jan. 19
Feb. 4. Crushed stone and gravel, Bay City, Mich. ..... Jan. 19
Feb. 6. Sidewalks, cinder, Franklin Park, Ill. ..... Jan. 19
Feb. 6. Paving, brick, Topeka, Kan. ..... Jan. 19
Feb. 7. Paving, brick, Webb City, Mo. ..... Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 7. Roads, Rensselaer, Ind. ..... Dec. 29
Feb. 14. Road, Napa, Cal. ..... Dec. 29
Feb. 15. Macadamizing, Madison, Wis. ..... Jan. 19
Feb. 18. Grading, Washington, D. C. ..... Jan. 19
Advertised, Eng. News, Jan. 19.

MISCELLANEOUS CONTRACTS.

Jan. 19. Railway tracks, etc., New York, N. Y. ..... Jan. 5
Jan. 19. Oil fuel plant, Springfield, Mass. ..... Jan. 5
Jan. 20. Hand carts, etc., Jeffersonville, Ind. ..... Jan. 5
Jan. 20. Ry. const'n, Guthrie, Fairview & Western ..... Dec. 22
Jan. 21. Switchboard, Washington, D. C. ..... Jan. 5
Jan. 24. Machinery, Washington, D. C. ..... Dec. 22
Jan. 24. Iron and lumber, New York, N. Y. ..... Jan. 12
Jan. 24. Arc lamps, rope, pipe, etc., Wash., D. C. ..... Jan. 12
Jan. 24. Piles, Washington, D. C. ..... Dec. 29
Jan. 24. Levee work, New Orleans, La. ..... Jan. 19
Jan. 25. Cypress ties, Washington, D. C. ..... Dec. 29
Jan. 25. Dredging, New Orleans, La. ..... Dec. 8
Jan. 26. Breakwater, Toronto, Ont. ..... Jan. 5
Jan. 26. Rails, fishplates, etc., South Africa. ..... Jan. 12
Jan. 26. Structural steel, Boston, Mass. ..... Jan. 19
Jan. 27. Wharf enlargement, Grondines, Que. ..... Jan. 19
Jan. 28. Boiler plant, West Point, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Jan. 31. Cement, granite, etc., Washington, D. C. ..... Jan. 5
Jan. 31. Stone, Portland, Ore. ..... Jan. 5
Advertised, Eng. News, Jan. 5 to Feb. 2.
Feb. 1. Stripping, St. Clair, Pa. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Feb. 2. Coal handling machinery, etc., Phila., Pa. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 3. Driving piles, San Francisco, Cal. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Feb. 3. Dredging, Savannah, Ga. ..... Jan. 5
Advertised, Eng. News, Jan. 5 to Feb. 2.
Feb. 4. Shears, Washington, D. C. ..... Jan. 5
Feb. 4. Latrine, Charleston, S. C. ..... Jan. 12
Feb. 4. Dredging, docks, Chicago, Ill. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 4. Sea wall, wharf, etc., Hawaii ..... Jan. 19
Feb. 6. Sale of boilers, Boston, Mass. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 6. Machinery, Washington, D. C. ..... Jan. 12
Advertised, Eng. News, Jan. 12.
Feb. 7. Wharf repairs, Fort Totten, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 7. Machine tools, Washington, D. C. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Feb. 8. Dam and bridges, Phoenix, Ariz. ..... Dec. 1
Advertised, Eng. News, Dec. 1 to Feb. 5.
Feb. 11. Pier extension, dredging, etc., Ireland. ..... Jan. 19
Feb. 11. Crane runways, Washington, D. C. ..... Jan. 19
Feb. 11. Electric elevator, Washington, D. C. ..... Jan. 19
Feb. 11. Canal, Columbus, O. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Feb. 14. Wire, drills, etc., Washington, D. C. ..... Jan. 19
Feb. 14. Machinery, Washington, D. C. ..... Jan. 19
Feb. 15. Dredging, Chicago, Ill. ..... Dec. 15
Advertised, Eng. News, Dec. 15.
Feb. 16. Dredging, Detroit, Mich. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 16.
Feb. 21. Portland cement, Cincinnati, O. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 16.
Mar. 6. Electric tramcars, etc, South Africa. ..... Jan. 12
Mar. 7. Steel rails, fish plates, Australia. ..... Jan. 19
Mar. 15. Dam, Los Angeles, Cal. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 23.
Mar. 17. Dredge, St. Louis, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Mar. 31. Electric railway, China ..... Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.
Apr. 1. Dredging, Sweden ..... Nov. 24
May 1. Light house, Egypt ..... Dec. 22

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALBUQUERQUE EASTERN.—Grading is in progress near Santa Fe, N. Mex. J. R. Farwell, Ch. Engr., is in charge. There remain about 60 miles of track to be constructed, it is said.

ARIZONA & CALIFORNIA.—Construction is under way from A. & C. Junction, near Wickenburg, Ariz., west to Parker, on the Colorado River, 110 miles. It is reported that five miles of track have been laid. W. A. Drake is Ch. Engr. of Santa Fe, Prescott & Phoenix Ry., at Prescott, Ariz.

ATCHISON, TOPEKA & SANTA FE.—The line between Chicago and Joliet, Ill., will be double-tracked at once, it is reported. A special meeting of the directors of the Santa Fe Company will be held Jan. 24 at Topeka, Kan., to authorize a $50,000,000 bond issue, previously

mentioned. It is said that $7,000,000 will be used in building 500 miles of road across Texas from Galveston northwest to connect with the main line at Albuquerque, N. Mex., to parallel the Southern Pacific. The division terminals at Topeka, Kansas City, Chicago and other points will be improved. A. G. Wells is Gen. Mgr. at Los Angeles, Cal. It is stated that 52 steel bridges will be built on the Los Angeles division. Noted Dec. 29.

ARKANSAS.—Phin Kimble, it is reported, will build a railroad from Cypress, Ark., on the Iron Mountain Ry., southward through Morehouse, West Carroll, East Carroll and Madison parishes in Louisiana to connect with the Vicksburg, Shreveport & Pacific Railway at Delta, La.

BALTIMORE & OHIO.—Company has under consideration, it is said, plan to build an 80-mile extension from Fairmont, W. Va., to Confluence, Pa., via Catawba and Morgantown, W. Va. D. D. Carothers is Ch. Engr., at Baltimore, Md. Estimated cost, $12,000,000.

BAYFIELD, LAKE SHORE & WESTERN.—W. B. Westcott, Auditor, Bayfield, Wis., states that this company will extend the line from Cornucopia, Wis., to Port Wing, Wis., 18 miles. H. C. Hale, Bayfield, is Secy.

BEAUMONT, SOUR LAKE & WESTERN.—G. W. Mecker, Pres., at Beaumont, Tex., states that probably 125 miles of new line will be built this year. Work will begin in the spring. G. W. White, Beaumont, is Ch. Engr.

BINGHAMTON & SOUTHERN.—Construction of this road will be taken under consideration at once, it is stated, now that charter has been sustained by court. Roberts, Tuthill & Rogers are Attorneys. George E. Green, Senator, of Binghamton, N. Y., is interested.

BOISE CITY RAILWAY & TERMINAL CO.—William Ashton, Salt Lake City, the chief engineer, informs us that this line will be extended three miles from Boise City, Idaho, to Barber Lumber Co. mills. The line is owned by the Oregon Short Line Railway. The UTAH CONSTRUCTION CO., Salt Lake City, has contract for grading. Grading and track-laying under way now. Noted on Dec. 29.

CALIFORNIA.—C. L. Wilson, of San Francisco, is interested in plan to build a steam line from Lincoln to Grass Valley. Mr. Wilson states that he expects building operations will commence this winter on that part of the route lying between Lincoln and Spencerville, via McCourtney Crossing, and that work would be in progress soon. An Eastern syndicate will build the road and will extend it to Vernon, where steamer connection will be made, with a large smelter to be built on the bay shore.

CANADIAN PACIFIC.—It is announced in Vancouver report that FOLEY, LARSON & STEWART has received contract for the rock work involved in double-tracking the C. P. from Winnipeg to Fort William. Cost $7,000,000. Noted last week.

CENTRAL OF GEORGIA.—Henry M. Steele, Ch. Engr., Savannah, Ga., announces that the company proposes general betterment of its Chattanooga district, to be undertaken this year.

CENTRAL OHIO & NORTHWESTERN.—F. W. Jones, Pres., Mount Vernon, O., states, according to report, that this company will build a steam railroad from Marion to Zanesville, O., about 100 miles, connecting with the Chicago & Erie at Marion.

CENTRAL ONTARIO.—John D. Evans, Ch. Engr., Trenton, Ont., writes us that the first 20 miles of proposed 40-mile extension has been located. Company is now ready to begin construction. Preliminary line for remainder of distance is being run. It will extend from Bancroft, Ont., via Maynooth, to Whitney. Noted on Dec. 15.

CHICAGO & ALTON.—G. H. Kimball, Ch. Engr., 923 Railway Exchange Bldg., Chicago, writes us that nothing has been done in connection with improving line between Kansas City and Mexico, Mo., except to consider problem of grade changes in a general way and doing some preliminary work. Details will be announced at a later date.

CHICAGO, MILWAUKEE & ST. PAUL.—The yard facilities at Libertyville, Ill., will be amply improved, it is reported. E. H. Barrett, Steward, Ill., is Supt. of Construction.

CHICAGO, ROCK ISLAND & PACIFIC.—W. L. Darling, Ch. Engr., Chicago, informs us that his department has no information regarding proposed extension from Knoxville to Indianola, Ia. Noted on Jan. 5.

COLORADO & SOUTHERN.—Connection will be made, it is said, with Cheyenne & Northern branch, a distance of 40 miles. H. W. Cowan, Denver, Colo., is Ch. Engr.

DENVER, NORTHWESTERN & PACIFIC.—H. A. Sumner, Ch. Engr., Denver, Colo., informs us that a portion of this line is now under construction from Arrowhead to Hot Sulphur Springs, 35 miles. Line has been located and general right-of-way secured for the projected railway from Denver to Salt Lake City, 539 miles. Capital has been secured. ORMAN & CROOK, Pueblo, Colo., have contract for grading. DUNPHY & NELSON, of Victor, Colo., also have a grading contract. This work is one-third completed and will be finished June 15. D. H. Moffatt, Denver, Colo., is Pres.

DUBLIN & SOUTHWESTERN.—It is reported that this company will build an extension from Eastman, Ga., to Fitzgerald, 35 miles.

FLORIDA.—The Strickland Lumber Co., Kathleen, Fla., will build an extension of its railroad north to Register, ten miles.

GRAND TRUNK PACIFIC.—E. E. Perry, Chief of Staff, Victoria Chambers, Ottawa, Ont., informs us that surveys are in progress and work about one-half completed on Thunder Bay branch from Thunder Bay to Winnipeg, Man. Contracts may be let in spring. This branch will be about 200 miles long. J. L. Stephens, Montreal, Que., is Ch. Engr. C. M. Hays, Montreal, is Pres. The projected line is from Moncton, N. B., to Port Simpson, B. C. R. M. J. McGill has been appointed assistant Chief Assistant, at Winnipeg.

GREAT NORTHERN.—This company plans this year to build the line from Sioux City, Ia., south to a connection with the C. B. & Q. at Ashland, Neb., 110 miles, according to a statement made to the business men of Sioux City by F. E. Ward, Gen. Mgr., of St. Paul. A new passenger station will be built in Sioux City, and it is proposed to build an elevated track a mile long on Third St. and to also restore machine shops in Division St.

The Great Northern contemplates extending the Pacific Short Line from O'Neill, Neb., west to a connection with the Billings branch of the C., B. & Q. Ry., at Dunning, Neb., about 90 miles. A. H. Hogeland, St. Paul, is Ch. Engr.

Chief Engineer Hogeland announces that 175 miles of track were laid on branches and extensions to the system last year.

GULF, COLORADO & SANTA FE.—It is reported that this company will build a railroad from a point on its San Angelo branch to a connection with the Pecos Valley system of the Santa Fe. Of the proposed issue of $50,000,000 of bonds which is to be authorized at a meeting of the stockholders of the Santa Fe to be held at Topeka, Kan., on Jan. 25, it is said $7,000,000 will be expended in building this cut-off line in Texas and in other improvements in this state. See Atchison, Topeka & Santa Fe.

HOLLY RIVER & ADDISON.—George A. Hechmer, Gen. Mgr., Palmer, W. Va., has stated that this company proposes to build an extension from Webster Springs to Bergoo, W. Va., a distance of 12 miles. 34 miles are now in operation.

IMBODEN & ODELL.—C. P. Peyton, Ch. Engr., Charleston, W. Va., is reported to have stated that company is to build from Charleston to Belva, W. Va., 44 miles, next spring.

INTERSTATE.—A. H. Reeder, Gen. Mgr., Stonega, Va., writes us that contract for construction has been let to J. E. RODES & CO., Knoxville, Tenn. Surveys have been made and capital secured. The extension will run from Appalachia to Kelleyview and Blackwood, Va., and up Roaring Fork, 15 miles. D. B. Wentz is Pres., 1723 Land Title Building., Philadelphia. B. E. Rhoads is Ch. Engr., at Stonega.

KANSAS CITY, MEXICO & ORIENT.—It is stated that about 40 miles of track have been laid. Grading is in progress from Eldorado, Kan., to Matfield Green, 25 miles, and in the mountains west of Minaca, Mex. The entire line will be 1,630 miles long, extending from Kansas City, Mo., to Tobolabambo, Mex., one mile being in Missouri, 275 miles in Kansas, 199 miles in Oklahoma, 549 miles in Texas and 610 miles in Mexico. The general contracts are held by the INTERNATIONAL CONSTRUCTION CO. and the UNION CONSTRUCTION CO., both of Kansas City, Mo. M. P. Paret, Kansas City, is Ch. Engr. Noted on Sept. 1.

LEHIGH VALLEY.—Surveys are reported to have been made for a branch from Batavia to Lockport, N. Y., about 30 miles. Walter G. Berk is Ch. Engr., at New York.

LOUISVILLE & NASHVILLE.—Regarding construction work on lines of this system, accomplished in 1905, R. Montfort, Ch. Engr., Louisville, Ky., stated that the total approximates 152.7 miles. At Boyles, Ala., there was built additional yards and roundhouse, with 20.88 miles of new trackage.

MISSISSIPPI.—W. Denny & Co., lumber manufacturers, of Moss Point, Miss., will build a railroad next year from Moss Point to Lucenale, 35 miles. They have let the contract for the first 15 miles.

MISSISSIPPI CENTRAL.—The extension from Silver Creek to Brookhaven will be commenced at once, it is reported. It will be 26 miles long. C. P. Davidson is Secy., at Scranton, Pa.

MISSOURI, OKLAHOMA & GULF.—George F. Morse, Ch. Engr., Muskogee, Ind. T., has stated that grading is under way on this road from Muskogee, Ind. T., south to Dustin, 60 miles. From Dustin it is proposed to build on to Denison, Tex., 120 miles. The company has absorbed the Muskogee Union extending from Muskogee to Coretta, ten miles, and will build from Coretta north to the Missouri state line, 93 miles. This company was chartered in October with $10,000,000 capital. Noted on Nov. 10.

MOBILE, JACKSON & KANSAS CITY.—A. N. Bullitt, Ch. Engr., Mobile, Ala., announces that in addition to building new line, the company converted 18 miles track from narrow to standard gage between New Albany and Pontotoc, Miss., last year. In 1905 the company will convert from narrow to standard gage the line from New Albany to Middleton, Tenn., 44 miles.

ORANGE & NORTHWESTERN.—C. W. Hole, Gen. Mgr., Orange, Tex., is reported to have stated that this company soon will begin construction of 180-mile extension north from the present northern terminus. Preliminary surveys have been made for 120 miles. The Orange Construction Co., capital $100,000 has been chartered to build the extension from Buna. The incorporators are I. T. Preston of New Orleans; W. H. Stark and L. Muller, of Orange. Mr. Preston is secretary of the New Orleans Terminal Co., a Frisco corporation. H. L. Montandon, Orange, Tex., is Ch. Engr.

QUEEN ANNE'S.—This road is to be offered at foreclosure sale on Jan. 27, after which the new Maryland, Delaware & Virginia Railroad will be incorporated. The road, which is 97 miles long and runs from Love Point, Md., to Rehoboth, went into the hands of Frank Ehlen, Baltimore, a receiver, in March, 1904. W. R. Crumpton, Love Point, Md., is Gen. Mgr.

SAN ANTONIO & GULF.—This road, extending now from San Antonio to Stockdale, Tex., will build on to Cuero, about 40 miles. J. M. Lee, San Antonio, Tex., is Gen. Mgr.

SHAWNEETOWN & ROSICLARE.—George Hanson, Secy., Shawneetown, Ill., writes us that contract for building this line has been let to the FRUIN-BAMBRICK CONSTRUCTION CO., 906 Chemical Bldg., St. Louis, Mo. The railroad will be 31 miles long and will run from Shawneetown to Rosiclare, via Gellatin. Right of way has practically been secured.

SOUTHERN PACIFIC.—It is reported that this company will apply to the state legislature for authority to merge the Galveston, Houston & Northern; the New York, Texas & Mexican; the Gulf, Western Texas & Pacific and the San Antonio & Gulf with the Galveston, Harrisburg & San Antonio railroads. This measure was passed at the session of the legislature two years ago, but was vetoed by Governor Samuel W. T. Lanham.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

PITTSFIELD, MASS.—The Pittsfield Street Ry. Co., it is announced, will build a power plant. The site will probably be at Coltsville. P. C. Dolan is Mgr.

MINEOLA, N. Y.—The Nassau County Board of Supervisors has granted an extension of time to Glen Cove R. R. Co. on its franchise to construct and operate an electric railway in Glen Cove. Company is given until June 1 in which to begin work.

MARIETTA, PA.—The Marietta & Maytown Street Ry. Co., capital $20,000, has been chartered in Lancaster. The line will extend from Marietta to Maytown. Nissley is Pres.

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AVONDALE, PA.—Borough Councils of Avondale West Grove have passed ordinances giving the new tered Oxford, West Grove & Avondale Electric rights of way on streets named in new charter.

LECKRONE, PA.—All rights of way for extens West Penn trolley lines from Leckrone to Jacobs 17½ miles, have been secured. Construction will b the spring. The road is known as the Pittsburg, M port & Connellsville Ry. Co., W. H. Graham, of Pitt Pres.

BEAVER, PA.—The Beaver Valley Traction Co. plied for a franchise to build an extension of it from Vanport to Smith's Ferry, where a connecti be made with the United Power Co.'s lines. The d is less than 15 miles.

HARRISBURG, PA.—Preparations are being ma Central Pennsylvania Traction Co. for laying consid new tracks next spring. Work on the Hummelstow tension will also be completed. Frank B. Muss Pres.

PHILADELPHIA, PA.—Contract for building sect Market Street Elevated Railroad substructure w 63d St., and between Schuylkill River and 42d St. been awarded to McGAW & GRAY CO., Pennsylvania Bldg.

Contract for superstructure over same part of line was awarded to AMERICAN BRIDGE CO., Richard W. Bailey, Philadelphia, Mgr.

GRAFTON, W. VA.—W. E. Hildebrand, 238 Fourth Ave., Pittsburg, Pa., is reported as stating that the Grafton Railway & Light Co. has received its charter from Secretary of State, and that work will proceed at once. The road will run from Blueville to Fetterman, with branches over Tygarts Valley River through West Grafton to Beaumont, and through South Grafton to City Park. Contracts have not yet been let, and the company will soon be open for propositions. Est. cost, $225,000.

RALEIGH, N. C.—The company proposing to build an electric car line between Raleigh and Durham has gained the last franchise desired.

UNION, S. C.—The "Pink Sheet Daily Bulletin" states that L. G. Young and associates have been granted a franchise to construct an electric street railway in this city.

DURANT, MISS.—An electric railway will be constructed between this city and Lexington via Castilian Springs. Chester Jones is chief promoter.

HATTIESBURG, MISS.—An interurban railway is projected from Hattiesburg to Laurel, 29 miles. Address C. J. Abbott.

VERSAILLES, KY.—The Woodford County fiscal court has granted to Clifford D. Bebee, of Syracuse, N. Y., a franchise and right of way for an electric railway through this county from Lexington via Versailles to Frankfort.

LORAIN, O.—The West Side Street Ry. Co. has been incorporated, with $10,000 cap. stock, by W. B. Thompson, Orville Root, F. W. Pierce, R. Thew, B. G. Nichols, W. N. Little and Wm. Sehrs. The company proposes to build a new street railway to the new steel mill district.

TOLEDO, O.—Plans and specifications are being prepared by Westinghouse Electric & Mfg. Co. for complete electrical equipment for the Toledo, Ann Arbor & Detroit Ry. Co. Construction work will probably be started in the spring.

YOUNGSTOWN, O.—A new survey is being made by the Youngstown & Canton Ry. Co. for its proposed line. Company is purchasing right of way. John E. Monnot is Pres.

STEUBENVILLE, O.—It is announced that the Steubenville & Wheeling Traction Co. will extend its line from Mary's Ferry to Brillant this year. The road will be 15 miles long, and will connect Steubenville with Wheeling.

COLUMBUS GROVE, O.—Village Councils at Ottawa and Columbus Grove have granted franchises for the electric line to be built from Toledo to Lima, by Buffalo capitalists and Lima Electric Railway & Light Co., Wm. Diel, Ch. Engr. Construction work will be commenced in the spring.

ANDERSON, IND.—Wallace B. Campbell, City, who is promoting an electric railway between Anderson and Lebanon, via Noblesville, states that a Chicago corporation will finance the road if satisfied with results of an investigation.

PORTLAND, IND.—The Indianapolis, Hartford & Celina Traction Co. has filed a petition before Jay County Commissioners for a franchise to construct an interurban line through the county touching Pennville. The line is to run from Indianapolis through Alexandria and Hartford City, to Celina, O.

PERU, IND.—Articles of incorporation have been filed by J. O. Cole, A. C. Bearss, B. E. Wallace, H. Masters, Wm. Zimmerman and Jerome Herff of this city for the building of an electric line from this city northward to Rochester. The line will parallel the Lake Erie & Western, reaching Mud Lakes and Lake Manitou, which have heretofore been without railway facilities.

SOUTH HAVEN, MICH.—A new franchise for an electric railroad was granted to C. W. Williams, of South Haven; Geo. Bardeen, of Otsego, and S. J. Dunkley, of Kalamazoo. The new corporation must have cars running by July. Extensions will be made to Kalamazoo and Saugatuck which will give South Haven a direct line with Detroit and Grand Rapids.

GRANITE CITY, ILL.—The Granite City, St. Louis & Eastern Belt Railroad Co. has been organized for the purpose of operating a belt railroad in Granite City and vicinity. Incorporators: F. G. Niedringhaus, H. F. Niedringhaus and Wm. F. Niedringhaus, of St. Louis, Mo., and W. W. Hanlon and C. F. Stelzel, of Granite City.

DES MOINES, IA.—The St. Joseph, Albany & Des Moines Electric Ry. Co. announces that contracts for grading will be let some time in February or March. Plans and specifications will be ready some time this month. F. S. Mordaunt is the promoter.

LINCOLN, NEB.—The Citizens' Ry. Co. has organized here with $1,000,000 cap. stock, $53,000 of which is paid in. Alex. Berger, F. W. Levering, C. G. Crittenden and others are interested.

JASPER, ARK.—The North Arkansas Electric Railroad & Power Co., of Jasper, will extend its line from Mt. Hersey to Fort Smith, a distance of 140 miles. Capital stock will be increased from $150,000 to $4,000,000. A. W. Bates is Ch. Engr.

SILOAM SPRINGS, ARK.—The Northwest Arkansas Electric Ry. Co. has been chartered to build electric railway from Siloam Springs to adjacent cities and towns. Capital stock $900,000, of which $250,000 has been subscribed. L. D. Moore is Pres.

GLENDIVE, MONT.—A franchise has been granted by Dawson County Commissioners to the Glendive & Yellowstone Valley Rapid Transit Co., to build an electric railway from Glendive to Buford, N. Dak., a distance of 80 miles. H. J. Haskell, B. S. Adams, J. J. O'Brien and J. Widwyer are interested.

ABILENE, TEX.—City Council has granted a franchise to Fred Cockrell of Dallas, and associates to build an electric street railway system here.

GREELEY, COLO.—Plans and specifications have been prepared for an electric railway in Weld County. It is stated that bids are being received, and that work will be begun within two or three weeks. The proposed line, which will be built by Eastern capitalists, will extend from Greeley to Denver.

STOCKTON, CAL.—The Stockton Electric R. R. Co. will apply for franchise this month to extend its line into the Wine End tract. The extension will be built as soon as possible. W. H. E. Leffler is Supt.

SEATTLE, WASH.—It is reported that the Seattle Electric Co. will begin construction of a new line to Fort Lawton in April.

SPOKANE, WASH.—The Spokane Traction Co., it is announced, is arranging to build a branch line to the interstate fair grounds in time for fair next fall.

MONTREAL, QUE.—Local press reports state that the Montreal Street Ry. Co. has decided to spend $500,000 on improving system during present year. These improvements include the erection of three sub-power stations.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—P. H. Coombs, City Engr., states that action has been taken in connection with plan to extend the lighting plant. M. H. Rideout is City Electrician. Noted on Dec. 29.

MELROSE, MASS.—Mayor Sidney H. Buttrick, in his annual message, recommends that steps be taken to establish a municipal lighting plant.

ATHOL, MASS.—James A. Smith, of New York, has been granted a franchise to construct and operate a gas plant. Mr. Smith is said to represent a company that is capitalized at $100,000.

TAUNTON, MASS.—John P. Brown, M. D., Supt. of Taunton Insane Hospital, informs us that plans, etc., have been advertised for, but that no bids have been received. It was reported that bids were asked until Jan. 9 for building power house and for addition to boiler room at Hospital, Hollis, French & Hubbard, 89 Beacon St., Boston, are Engrs.

ONEIDA, N. Y.—De Witt C. Hadcock, C. E., of Oneida, states that contracts will be let about April 1, for developing power at Limekiln Falls. Cost, about $125,000. Noted on Nov. 17.

BOLIVAR, N. Y.—The Genesee Gas Co. that has been granted a franchise to pipe natural gas for ten miles from Little Genesee, will be in the market for quantity of pipe, we are informed by F. H. Raymond, Ceres, N. Y., Secy. Work will begin in the spring.

BUFFALO, N. Y.—The Phelps Lighting Co. has been incorporated, with capital of $50,000. The directors are William Hocker, William E. Hockser, Edward W. Phelps and Frank H. Callan, of Buffalo; and Henry C. Wiedrich of Batavia, N. Y.

ELLWOOD CITY, PA.—The Pennsylvania Power Co. has been incorporated with a capital of $5,000 by A. J. Barron, R. L. Smith and B. R. Thomas, of Pittsburg, to store, transport and furnish water, with the right to erect reservoirs; the water to be used for furnishing power for manufacturing and for other purposes.

LEBANON, PA.—The Lebanon County Light, Heat & Power Co. has been incorporated, with a capital of $25,000. Quincy Bent, Lebanon, is reported to be interested.

WILMINGTON, DEL.—William H. Cookman, Engr., is preparing plans for a power plant at Wilmington to supply light, heat and power for the Pennsylvania Ry. Co.'s new office building and passenger station, it is reported.

GREAT FALLS, VA.—Bids are reported being received for stone and brick power house at this place for the Great Falls & Old Dominion Ry. Co. Electrical equipment, to cost about $300,000, will be installed.

SOUTH BOSTON, VA.—The South Boston Electric Light & Power Co. contemplates extensive improvements to its plant, increasing the capacity, etc., it is stated.

ROCKINGHAM, N. C.—According to "Pink Sheet Bulletin," Hugh McRae & Co., bankers, of Wilmington, N. C., have purchased several hundred thousand acres of land lying along the Pee Dee River in Anson and Richard counties. The announcement is made that a corporation, for which McRae & Co. are acting, will immediately begin the development of Bluett's Falls, eight miles from Rockingham, to supply that section of the country with electric power. It is said that 30,000 HP. will be developed.

ATLANTA, GA.—Frank P. Rice, Pres. Bd. of Water Comrs., has recommended the construction of a direct-connected electric light plant, to furnish light to the water-works. Estimated cost, $5,000.

GREENSBORO, GA.—THE ELECTRIC SUPPLY CO., of Savannah, Ga., has contract to erect a electric light plant. Bonds have been voted. Cost, $10,000.

FORT VALLEY, GA.—City will hold an election about March 1 to consider the question of establishing a municipal electric light plant. J. L. Fincher is mayor.

OCALA, FLA.—City will vote Jan. 24 on the issuance of $45,000 of bonds, a portion of which will be used to improve electric light plant.

HOUSTON, MISS.—An election will be held on Feb. 2 to vote upon issuance of $13,500 bonds for the construction of water-works and electric light plant. J. M. Griffin is Town Clk.

LAKE CHARLES, LA.—City council is considering a plan to establish here an electric plant. Estimated cost, $60,000.

MEMPHIS, TENN.—The Merchants' Power Co. has been organized, with $500,000 capital, to erect plant to supply private consumers. Company will also erect a plant to supply the city and will give the city the option of buying either or both plants. George M. Tidwell is Chn. of Committee on gas and electricity.

CANTON, O.—Plans have been received by the Canton-Akron Ry. Co. for 2,700 HP. steam turbine engine for the power house. Foundations will be constructed and bids will be asked at once for this work.

SHELBURN, IND.—C. Wm. Whaley and Noland B. Stadley, representing the Vigo Electric Co., 27 North Eighth St., Terre Haute, have secured a 20-year city and commercial lighting franchise in Shelburn. The plant will be built between this town and Hymera. A franchise has been petitioned for at latter place.

GRANDLEDGE, MICH.—A. E. Dunn, St. Johns, Mich., has been granted franchise for in talling gas plant and will start work in the spring. Eight miles of pipe will be laid. Total cost, about $35,000.

ALMA, WIS.—The Alma Electric Light Co. has been incorporated, with a capital of $5,000, by John Harry, Russell N. Smith and Frank Harry.

MONROE, WIS.—The Monroe Gas Co. will expend about $30,000 in improving its plant, it is said.

MILWAUKEE, WIS.—The Cutler-Hammer Manufacturing Co. has increased its capital stock from $500,000 to $1,000,000. A new power house will be built and equipped.

IOWA CITY, IA.—The dam which is to be built across the Iowa River by University of Iowa will be located 100 ft. north of the Burlington St. bridge. Preliminary surveys under way. Legislature has appropriated $10,000.

CLARINDA, IA.—The Lee Electric Light Co. has been granted a franchise to erect an electric light, heat and power plant in this city. C. W. Stuart is Cy. Clk.; C. W. Foster, Mayor.

MASON CITY, IA.—THE BRICE GAS & ELECTRIC CO. has been granted a 7-year contract to light city streets.

WICHITA, KAN.—The Wichita Railroad & Light Co. will improve its power plant. Estimates are being prepared by engineers. L. O. Williams is in charge of work.

INDEPENDENCE, KAN.—Municipal ownership of gas wells and gas plant is considered by council. Legislature will be petitioned to grant this city authority to issue $250,000 of bonds for purchase of plant of Kansas Natural Gas Co. or for erection of a new one.

COFFEYVILLE, KAN.—Bids have been received for the construction of an electric light plant. Cost, $15,000. W. K. Palmer, Dwight Bldg., of Kansas City, Mo., is Engr. Noted on Dec. 22.

ST. LOUIS, MO.—A bill has been approved by Board of Public Improvements appropriating $15,000 for the erection of an electric lighting plant at the city insane asylum.

WICHITA FALLS, TEX.—S. H. Huggins, of Amarillo, Tex., has secured franchise for the establishment of a hydro-carbon gas plant to manufacture gas for illuminating, heating and power purposes. Cost, about $25,000.

MUSKOGEE, IND. T.—The Commercial Club will undertake to develop water power of Grand River, ten miles from this city. Engineers will make surveys for the location of power house.

A press report states that engineers representing the Texas & Gulf Ry. are here making estimates, with a view to constructing a water power plant on the Grand River to produce from 40,000 to 80,000 HP. The plant, if built, will be about eleven miles from Muskogee.

ALBUQUERQUE, N. MEX.—F. H. Kent has been granted a franchise by Bernalillo County Board of Commissioners to build and operate a gas plant in this county.

OREGON CITY, ORE.—According to a reported interview, H. W. Goode, Gen. Mgr. of Portland General Electric Co., at Portland, has stated that this company will erect a 40,000-HP. power house at Oregon city, on the Willamette River. The company is now considering the building of a transmission line from Oregon City to Salem, for the purpose of supplying the Willamette Valley towns with electric light and power.

ARCATA, CAL.—Brousse Brizard, Pres. Arcata Light & Power Co. states that it is proposed to purchase at once a complete equipment for transformer station "including three 100-KW. transformers, one 10,000-volt oil switch, and 80 assorted sizes of meters, 5 to 10 amp.; probable cost, $6,000." H. L. Jackman, Eureka, Cal., is Engr.

LEHI CITY, UTAH.—J. H. Wooten, Mgr. Utah County Light & Power Co., is reported to have prepared details for the erection of a light and power plant in American Fork canyon. It will be operated by both water and steam. Cost is estimated at $400,000.

ST. THOMAS, ONT.—It is reported that city will purchase gas and electric light plant in this place.

FORT WILLIAM, ONT.—City may improve electric light plant at cost of $6,000.

OTTAWA, ONT.—A Montreal press report states that preliminary steps have been taken in the formation of a big merger of the different electrical and power interests operating in and around Ottawa. Combined capitalization is about $7,000,000. The scheme contemplates the pooling of interests of the Ottawa Electric Co. the Ottawa Electric Railway, the Consumers' Electric Co., the Hull Electric Co., including the Street Railway of that city, the Capital Power Co., of Deschene, the Hull and Ottawa Power Co. and probably the Metropolitan Electric Co. It is proposed to develop water power of the Chaudiere River.

MONTREAL, QUE.—The Montreal Street Railway Co. will spend about $500,000 in improving its system, it is stated. Three power sub-stations will be erected, one on Glen Ave., near St. Antoine St.; a second at St. Denis St. and Comte Ave. and another at Hochelaga.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SPRINGFIELD, MASS.—We are informed that the contract for rebuilding bridge here over Connecticut River was awarded to RIVERS & YOUNG, of Holyoke, P. O. Box 85, for $24,385. Robt. O. Morris, Clk. of Courts. Bids were opened Jan. 11.

WOONSOCKET, R. I.—A number of bridges here will be repaired. Frank H. Mills is Cy. Engr.

NORWALK, CONN.—Chas. N. Wood, Engr., informs us that bids will be received Jan. 25, 12 m., for constructing a new stone arch bridge. Est. cost, $10,000.

BINGHAMTON, N. Y.—Bids are asked by D. C. Herrick, Cy. Clk., until Feb. 7 for repairing Tompkins St. bridge. A. H. Sutermeister, Engr. (Advertised, Engineering News.)

GALETON, PA.—Bids for constructing bridge here were rejected, and we are informed that no arrangements have been made yet for reletting. E. E. Phelps is Clk. to Council.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are inpited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

PITTSBURG, PA.—It is reported that authority has been given H. H. Temple, Engr., Pittsburg Div., B. & O. Railroad, to reconstruct four bridges of Pittsburg & Western Railroad over Pine creek, between Sharpsburg and Bakerstown, at a cost of $60,000. Work will be started at once.

BALTIMORE, MD.—Ordinance granting permission to Baltimore & Ohio to build a superstructure over Barre St. has been signed by the Mayor. D. D. Carothers, City, is Ch. Engr.

BELAIR, MD.—We are informed that contracts for constructing two steel concrete bridges and abutments here have not yet been awarded. Bids opened Jan. 9 by County Commissioners. B. F. Hanway, Pres.

CULPEPER, VA.—A. F. Brown, Town Engr., writes us that bids will be received until Feb. 20 for constructing a steel bridge, 224 ft. long, across Rapidan River, between Culpeper and Spottsylvania.

FULTON, MISS.—Senate passed a bill authorizing Itawamba County to construct a bridge over Tombigbee River, near here.

INDIANOLA, MISS.—The Committee on Interstate and Foreign Commerce has favorably reported the bill authorizing Sunflower County to build bridge across Sunflower River.

SHREVEPORT, LA.—M. L. Lynch, Ch. Engr. Cotton Belt Ry. Co., writes us that plans have been prepared by J. W. Schaub, Consult. Engr., Monadnock Bldg., Chicago, Ill., for a drawbridge across Red River here for Railway Co. Proposals have already been received at Vice-President's office, St. Louis.

CROSSVILLE, TENN.—Contract for building steel bridge to be built over Obed's River was awarded to CHATTANOOGA BRIDGE CO., for $1,660.

DAYTON, O.—Bids were received by city officials, Jan. 16 for construction of steel superstructure for bridge over Great Miami River at Herman Ave. The work requires construction of three spans of 134 ft. each, one span of 199 ft. and one of 150 ft. The width of roadway is 20 ft. and there are to be two sidewalks of 6 ft. each. The contract had not been let up to Jan. 12. The bids were offered on various plans. The King Bridge Co., Cleveland, O., at $16,300, was low bidder on Plan E, for new superstructure and plank flooring; Brookville Bridge Works, Brookville, O., at $23,400 was low bidder in Plan D, for new superstructure and paved roadway; for new superstructure and creosote block paving the Massillon Bridge Co., Toledo, O., at $35,000 was low bidder; for re-erecting old bridge, J. C. Morrison, Dayton, O., at $10,800 was low bidder. F. M. Turner, is Cy. Engr.

INDIANAPOLIS, IND.—It is reported that bids will be received by County Commissioners until Feb. 7 for constructing new River Ave. bridge across White River. The appropriation for the bridge is $165,000.

Plans for the Enrichsville bridge near Riverside Park, are being prepared and will be completed, it is stated, in about four weeks.

VINCENNES, IND.—Bids are asked by Knox County Commissioners until Feb. 8 for constructing an 80-ft. truss bridge on concrete abutments. Est. cost, $2,750. John T. Scott, County Audr.

WABASH, IND.—Bids are asked by County Commissioners until Feb. 7 for constructing a 240 ft. viaduct over Charly creek, with two 75-ft. arches for waterway, 24 ft. macadam roadway, and 5 ft. walk on one side. W. S. Davis, County Audr.

ALPENA, MICH.—It is stated that a cement bridge will be constructed over Thunder Bay River near here. Cost, $12,000. The county to pay one-third of the cost.

MANISTEE, MICH.—Plans for drawbridge over Manistee River are being prepared by Geo. S. Pierson of Kalamazoo.

MADISON, WIS.—Bids will soon be received by J. F. Icke, Cy. Engr., for a concrete-steel arch bridge on Washing Ave., across Codfish River. Cost, $8,000.

MILWAUKEE, WIS.—Local press reports state that the Board Public Works will soon advertise for bids for constructing the proposed new viaduct extending from First Ave. to Sixth St. Cost, $525,000. Chas. J. Poetsch is Chn. Bd. Pub. Wks.

MILWAUKEE, WIS.—Gustave Steinhagen has been elected consulting engineer of the proposed Grand Ave. viaduct by County Board.

MILWAUKEE, WIS.—It is reported that the contract has been awarded to WISCONSIN BRIDGE & IRON CO. for bridges and viaducts along line of new Mobile & St. Louis Railway, amounting to about $200,000.

ST. PAUL, MINN.—Contract for reconstructing high bridge was awarded Jan. 5 by Board of Aldermen to ST. PAUL FOUNDRY CO., for $59,091.

MINNEAPOLIS, MINN.—Senate has passed bill to permit this city to construct a bridge across Mississippi River at 32d Ave.

STILLWATER, MINN.—Press reports state that Myron Shephard, Cy. Engr., is preparing estimate of cost of constructing a new bridge over St. Croix River.

TOPEKA, KAN.—The contract for building Sardou Ave. bridge has been let to TOPEKA BRIDGE CO., by County Commissioners, for $13,984.

FARGO, N. DAK.—County Auditor has been authorized to advertise for bids for construction of a steel bridge at Casselton.

ABERDEEN, S. DAK.—Separate bids will be received by Brown County Commissioners until Jan. 24 for constructing several wooden bridges; also for constructing one 45-ft. steel span, with 18 ft. clear roadway. E. G. Cummings, County Audr.

CANTON, S. DAK.—Contract for constructing steel bridge across Sioux River near here has been let to JOHN W. TOWLE BRIDGE CO. of Sioux City, Ia. Cost, $2,000.

ST. LOUIS, MO.—The Missouri, Kansas & Texas has given a contract to AMERICAN BRIDGE CO. to erect a 200-ft. steel bridge on concrete abutments to cost about $30,000, on its Choctaw division; and to the King Bridge Co. for a 124-ft. bridge to cost about $9,900, on the Joplin branch, and to the same company for eight bridges aggregating 915 ft. to replace lighter combination spans on Dallas division. Company will do its own masonry work.

ST. LOUIS, MO.—The Mobile & St. Louis Railway has given contract to WISCONSIN BRIDGE & IRON CO. of Milwaukee, Wis., to erect a number of bridges on line of its proposed road, at about $200,000.

PERRY, OKLA.—Bids are asked by County Clerk until Jan. 24 for constructing a steel bridge across Black Bear Creek.

ASOTIN, WASH.—Contract for new steel bridge over Snake River has been let to PUGET SOUND BRIDGE & DREDGING CO., of Seattle. There will be one span 100 ft. long and resting on two concrete piers. Cost, about $3,500.

LOS ANGELES, CAL.—Board of Supervisors ordered a new bridge to cost not over $4,000 to replace old Foster Bridge in Downey and San Antonio districts.

LOS ANGELES, CAL.—It is stated that on Jan. 24 the directors of the Santa Fe Railroad Co. will meet and authorize a bond issue of $50,000,000 to be put into improvements on the system between Chicago and Los Angeles and San Francisco. At least $1,000,000 of this will be expended in improvements on Southern California division, the headquarters of which is San Bernardino. Between Los Angeles and San Bernardino seven new steel bridges will be constructed. R. B. Burns is Ch. Engr., City.

SAN FRANCISCO, CAL.—Executive Committee of Federation of Mission Improvement Clubs has filed with Board of Supervisors a petition calling their attention to dangerous condition of bridge spanning Southern Pacific tracks at Mount Vernon and San Jose Aves. They also ask Board to have approaches leading to bridge placed in passable condition, and further that they provide funds in budget next year for a new bridge.

STOCKTON, CAL.—Bids are asked by Board of Supervisors until Feb. 7 for a steel bridge to be constructed at New Hope Landing.

PHOENIX, ARIZ.—Bids are asked by United State Reclamation Service, Phoenix, until Feb. 8 for constructing two bridges on Salt River about 70 miles east of here. Plans and specifications may be seen at office of Chief Engineer of Reclamation Service, Washington, D. C., or at office of District Engineer, Roosevelt, Ariz. The work is in connection with construction of a dam for the Government irrigation project, which is advertised in Engineering News.

VANCOUVER, B. C.—According to local reports, the Northern Pacific and Portland Ry. Co. are considering the question of jointly building a double-deck bridge over Columbia River to cost about $3,000,000. The upper deck will be used for electric cars and lower one for steam road.

WINNIPEG, MAN.—M. H. MacLeod, Ch. Engr. Canadian Northern Railway, writes us that steel bridges in course of erection or to be erected the coming season on the Canadian Northern are as follows:

South Saskatchewan River, concrete piers and abutments, six 180 ft. pin-connected steel deck spans. Substructure is finished. CANADIAN BRIDGE CO., of Wakeville, Ont., now erecting steel work.

North Saskatchewan River, first crossing, at Elbow, concrete piers, etc., six 100-ft. pin-connected steel deck spans and two 100-ft. through spans. Substructure now being constructed by MACKENZIE, MANN & CO., LTD. Steel contract let to CANADIAN BRIDGE CO.

Second crossing at Battleford, concrete piers, etc., nine 170 ft. p. c. steel deck spans and two 170 ft. through spans. Steel work contract let to CANADA FOUNDRY Co., Toronto, Ont.

Third crossing, at Fort Saskatchewan, not definitely decided, will probably be similar to other crossings.

Assiniboine River, Winnipeg, concrete substructure; tenders all in. Two 100-ft. steel through spans and one 200 ft. through draw span, double track. Contract for steel work let to CANADIAN BRIDGE CO.

South Saskatchewan River, Prince Albert branch, concrete substructure; tenders all in. Six 180 ft. steel deck spans, contract let to CANADIAN BRIDGE CO.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

CONCORD, N. H.—Plans have been prepared, it is stated, by Wm. M. Butterfield, Manchester, N. H., for a building for the New Hampshire State Hospital at Concord. The estimated cost of the building and other necessary improvements is $145,000 to $150,000, which it is expected will be appropriated this winter.

HARTFORD, CONN.—Bids are asked until Feb. 1 by Geo. M. Cole, Brigadier-Gen. C. N. G., Secy. Armory Comn., at State Capitol, for erecting, including heating, electric work and plumbing, an arsenal and armory. Probable cost, $350,000. Davis & Brooks, Archs., 49 Pearl St.

Bayley & Goodrich, Archs., will receive bids, it is stated, about Feb. 15 for alterations to a 7-story hotel. Estimated cost, $150,000.

BOSTON, MASS.—Bids are asked until noon, Jan. 25, for building primary school-house at Glenway Lot, Glenway and McLellan Sts. and Blue Hill Ave., Dorchester. J. E. McLaughlin, 683 Atlantic Ave., is Arch.; R. Clipston Sturgis, Comr.

SALEM, MASS.—High School Commission has accepted plans for new high school building submitted in competition by Kilham and Hopkins, of Boston. Building will be 150 × 240 ft., three stories, brick and stone. John W. Perkins is Supt. of Schools. Bids will be received for construction.

BOSTON, MASS.—Parker & Thomas, Archs., of Boston, will prepare plans for proposed Fenway studio building. It will be located on Ipswich St. The joint committee of the St. Botolph Club and the Copley Society have the matter in charge, and is composed of Thomas Allen, Chn.; William Chester Chase, Secy.; Frank W. Benson, W. W. Churchill and Herman Dudley Murphy.

NEW HAVEN, CONN.—The Board of Education has invited architects to submit plans for the proposed 18-room school building to be erected at Scranton and Orchard Sts., in the Webster school district. Estimated cost, $65,000.

NEW YORK, N. Y.—Albert B. Ashforth & Co., 4 West 33d St., real estate brokers, have negotiated a sale of property on 34th and 35th Sts., west of Fifth Ave., which is to be the site, according to report, of $1,000,000 department store.

Bids are asked until 11 a. m., Jan. 23, by C. B. J. Snyder, Supt. Bldgs., Bd. Education, for general construction of school 151 on Knickerbocker Ave., between Halsey and Weirfield Sts., Boro. Brooklyn.

Bids are asked until 2 p. m., Jan. 26 for erecting (except heating and ventilating systems, boilers and steam piping) a building on block bounded by Grand, Centre and Broome Sts. and Centre Market Pl., for Police Department Headquarters. William McAdoo, Police Comr.

Plans have been filed by J. Hamsler, Arch., 1159 East 180th St., for eight 6-story brick flats, 37 × 86 ft., on 135th St., east of Lenox Ave., for Karpas & Wittner, 158 West 121st St. Cost, $304,000.

NEW YORK, N. Y.—Bids will be received about Feb. 1, we are informed, on general contract for the Engineers' Club Building, to be erected at 32-34 West 40th St. Estimated cost, $450,000. The building will be eleven stories, fireproof, 50 × 99 ft. Andrew Carnegie is the donor. Whitfield & King, 160 Fifth Ave., are Archs. Previously mentioned.

NEW YORK, N. Y.—D. H. Burnham & Co., 143 East Eighth St., Archs., are reported ready to receive bids for a 10-story side extension, to contain offices to the storage building, at 33-39 East 21st St. Est. cost, $200,000.

The Board of Estimate has voted $2,158,000 to enable the College of the City of New York to complete its quadrangle of buildings on the Washington Heights section. The new college buildings and grounds, covering four blocks, will have cost $4,500,000 when completed.

W. Powell Robins, Arch., 19 Liberty St., has plans for an orphan asylum for the Orphan's Home and Asylum of the Protestant Episcopal Church of New York, 105 East 22d St. Brick, stone, concrete and granite, structural iron, fireproof construction, tin roof, electric wiring, etc. Probable cost, $125,000.

BROOKLYN, N. Y.—Bids were received as follows on Jan. 12 for furnishing all the labor and materials required to construct a stable on the block bounded by Flushing Ave., Graham St., Kent Ave. and Little Nassau St.: Snare & Triest Co., 39 Cortlandt St., $338,000; C. H. Peckworth, 415 Hudson St., $349,000; R. E. Heningham, 4 Court Sq., Brooklyn, $324,876; P. J. Carlin Construction Co., 1 Madison Ave., $326,000; Buckley Realty Co., 42d St. and Broadway, $350,000; D. J. Ryan, 733 Third Ave., $345,000; Clarke & Stowe, 229 Kent St., Brooklyn, $333,000; P. J. Carlin Construction Co., 26 Court St., $333,000; Thos. Leahy, 1 East 42d St., $352,000; L. W. Seaman, Jr., 133 Grand Ave., $343,000.

Baker, Smith & Co., 83 West Houston St., were lowest bidders on heating and ventilating systems contract, at $5,589; Evans, Almirall & Co., 281 Water St., $5,645. Rossman & Bracken Co., 132 East 42d St., were lowest bidders, at $14,000, for installing plumbing and gas fitting. George Weiderman Electrical Co., 21 New Chambers St., were lowest bidder on electric work, at $2,100.

PLATTSBURG BARRACKS, N. Y.—Bids are asked until 2 p. m., Feb. 9, for constructing, plumbing, steam heating and electric wiring one band barrack. Capt. T. B. Lamoreux, Q. M., Burlington, Vt.

MONTCLAIR, N. J.—Plans for the proposed new grammar school to be erected on Hillside Ave. have been adopted by the Montclair Board of Education. The structure will cost $150,000.

ATLANTIC CITY, N. J.—It is reported that a $100,000 fire station will be erected at Pacific and Pennsylvania Aves., and another at Pacific and Florida Aves.

ELIZABETH, N. J.—The Y. M. C. A. will erect a 4-story brick building, to cost $60,000, on East Jersey St., near Broad St. J. H. Strawbridge is Secy.

PHILADELPHIA, PA.—Mann & Gray, 1001 Chestnut St., will receive bids on construction of 114 houses, to be erected at 51st and Spruce Sts. Estimated cost, about $300,000.

PITTSBURG, PA.—The Pennsylvania Ry. Co. has awarded a contract to the DRAKE & STRATTON CO. for building the foundations for the terminal freight station at the Point, which will replace the present Duquesne freight depot. Work will be started at once, and will be completed within six months. The contract amounts to about $375,000.

McCollum & Dowler, Archs., Bank for Savings Bldg., have plans for a 12-story addition to the Colonial Hotel at Penn Ave. and Sixth St. Steel frame, terra cotta front, electric plant, freight and passenger elevators, probably 350 rooms. Estimated cost $300,000. F. C. Smith is Prop.

ALLEGHENY, PA.—B. White is preparing to erect a 10-story business block at East Ohio and Sandusky Sts. It will be fireproof, brick and steel, 60 × 90 ft. Estimated cost, $125,000.

NEWCASTLE, PA.—Bids were opened by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for the construction complete of post-office at Newcastle. Flasell & Wagner, 1133 Broadway, New York, were lowest bidders, at $66,400.

W. G. Wilkins Co., Westinghouse Bldg., Pittsburg, is reported to plan extensive improvements at the Rock Point Park, near Newcastle, including amusement buildings, dancing pavilions, dining hall, cottages, frame hotel, electric plant, etc. Estimated cost, $50,000. J. G. Sansom, Rock Point, is reported interested.

BALTIMORE, MD.—Wyatt & Nolting, Archs., Builders' Exchange Building, 2 East Lexington St., are preparing plans and specifications for the reconstruction of office building for the Commercial and Farmers' National Bank at Howard and German Sts.

Charles J. Bonaparte, 216 St. Paul St., as trustee for the Walter R. Abell estate has awarded contract to JAMES STEWART & CO., 319 North Charles St., for construction of apartment house at Charles St. and Lafayette Ave. Wyatt & Nolting, Archs., Builders' Exchange. Cost, about $250,000.

R. Brent Keyser, 14 East Mt. Vernon Pl., has awarded contract to TATTERSON & THUMAN, 214 North Liberty St., for the construction of warehouse at Liberty and Lombard Sts. Archer & Allen, Archs., Central Savings Bank Building.

BALTIMORE, MD.—It is reported that John M. Carter, Pres., 222 St. Paul St.; F. C. Latrobe, 205 St. Paul St.; Frank A. Furst, 803 Fidelity Building, and Ernest Schmeisser, 19 East Barre St., have been appointed a building committee by the Maryland Institute. A site, 150 × 200 ft., at Mt. Royal Ave. and Lanvale St., has been donated the Institute. $526,000 is available for the erection of the building. Andrew Carnegie having donated $263,000 of this sum recently.

Simonson & Pietsch, Archs., Hoen Bldg., will prepare plans for proposed $400,000 Female High School building. It will be erected at Broadway and North Ave.

John Hiltz, Clay St., will supervise construction by day labor of the new Savings Bank of Baltimore building, at Baltimore and Charles Sts.

FORT HOWARD, MD.—Bids are asked by Wm. M. Cruikshank, Q. M., until Feb. 10 for the construction of two sets of officers' quarters and barracks, including plumbing, heating and electric wiring; also ordnance store house, wagon shed, oilhouse and coal shed at Fort Howard, Md.

WASHINGTON, D. C.—The American University has invited bids for construction of the McKinley Ohio College of Government building. Steel and marble, fireproof, two stories. Cost, $250,000.

The National Metropolitan Citizens' Bank, E. S. Parker, Pres., will have plans prepared for a bank and office building.

T. F. Schneider, Arch., Bond Bldg., is preparing plans for an apartment house on Washington Heights for Emmons Smith. Probable cost, $250,000.

NORFOLK, VA.—Ferguson & Calrow, Archs., have plans for a 6-story brick and terra cotta hotel, 50 × 125 ft., to be erected at Granby and Tazewell Sts. C. F. Cromwell, L. B. Dodson and C. N. Whitehurst are in... Cost, $125,000.

OCALA, FLA.—Bids are asked until Feb. 6, by County Commissioners, for erecting a court hou... reported. Cost, $45,000. Plans may be obtained ... posit of $35, which will be refunded on return of ... H. J. Kentho, Uedeman Bldg., Jacksonville, is A... T. Sistrunk, Clk.

MONTICELLO, MISS.—Bids are asked by W... Speights, Chancery Clerk, Lawrence county, un... 7 for furnishing all material and building county ja... S. Hull, Jackson, Miss., Arch.

NASHVILLE, TENN.—Bids are asked by James ... Taylor, Supervising Arch., Treas. Dept., Washing... C., until Feb. 4 for the installation of an elec... senger elevator in the U. S. Custom House and Po... fice. (Advertised, Engineering News.)

HENDERSON, KY.—Lowest bid for the complete... struction of the post office at Henderson was subm... by John E. Barnes & Co., Logansport, Ind., at $33,0...

HAMILTON, O.—George A. Rentschler will erect ... story business block at High and Second Sts. ... Barkman, of Hamilton, and Peters, Burns & Pretzm... of Dayton, are associate Archs. Cost, $250,000.

CINCINNATI, O.—Plans for the new $1,000,000 hos... will be prepared by Samuel Hannaford & Sons, Hu... Block. Mentioned last week.

TOLEDO, O.—L. G. Welker, Arch., Spitzer Buildi... has prepared plans for a 3-story addition, 60 × 90 ft., ... Hotel Union. The present building will be remodeled a... Estimated cost, $50,000.

YOUNGSTOWN, O.—Owsley & Boucherie, Archs., Wi... Bank Bldg., have been retained by the city to prepa... plans for the new detention hospital. Cost, $38,000.

CINCINNATI, O.—Bids are asked until noon, Jan. 2... for the carpenter work, electric wiring, concreting, bri... masonry, black boards and heating and ventilating for a ... 12-room school building, to be erected at Clifton and Mc... Alpin Aves. Jacob E. Cormany, Chn. Com.

The board of education has adopted resolutions provid... ing for the erection of two new school houses. Cost ... $300,000. Bonds to cover the cost will be issued. Ed. H. ... Dornette, Arch., Pickering Bldg., will prepare the plans.

The Cincinnati "Post" Co. will erect a 10-story building at Post Sq. and Elm St. Cost, $300,000.

LAKEWOOD, O.—Bids are asked until Feb. 2 by the board of education for furnishing and installing gas and electric fixtures in Lakewood high-school. L. W. Thomas, Bangor Bldg., Cleveland, is Arch. Otto C. Muehlhauser, Clk.

SAUGATUCK, MICH.—The Ridgewood Beach Hotel Co., Chas. F. Lorimer, Chicago, Ill., and Mr. Lovelace, Saugatuck, promoters, may erect a 150-room frame hotel, at Saugatuck to be opened by June 15. Architect has been selected.

GALENA, ILL.—Bids are asked by board of education until 2 p. m., Jan. 24 (readvertisement) for the construction, completion and equipment of high-school building.

CHICAGO, ILL.—Otto Young, State and Adams Sts., will erect a building for Carson, Pirie, Scott & Co., adjoining their present store to the south in State St. Site is 104 × 144 ft. The building will be 12 stories high, of non-combustible materials, and will cost $800,000. Construction will begin May 1, 1906.

Shepley, Rutan & Coolige, Archs., Old Colony Bldg., are preparing plans for seven buildings for the Old People's Home, at 39th St. and Indiana Ave., to contain administration building, dining hall, four dormitories for men and women. To be three stories, of brick and stone, all modern improvements. Cost, $200,000. C. L. Hutchinson is Trustee.

The Royal Tailors, 1200 Michigan Ave., will erect a building at Fifth Ave. and Polk St. To be seven stories, 116 × 102 ft., built of brick, steel and stone. Cost, $200,000. Construction will be begun May 1.

BARABOO, WIS.—The county court house, recently burned, will be replaced. New building will cost $100,000.

ELLSWORTH, WIS.—Buechner & Orth, Archs., St. Paul, Minn., have plans for new Pierce county court house, 72 × 100 ft., to be erected at Ellsworth. Estimated cost, $80,000. J. L. Moody is Chn. Bldg. Com.

SIOUX CITY, IA.—J. H. Bolton will rebuild the Bolton and Commercial blocks, recently burned. Estimated cost, $100,000. Jonathan W. Brown is interested.

DAVENPORT, IA.—Ruymann & Ruymann, Harrison and Second Sts., may erect an office building to replace present building at this location.

DULUTH, MINN.—The question of building a new court house, to cost about $300,000, is being agitated. Fred. Kugler, County Comr.

SEWARD, NEB.—Geo. A. Berlinghof, Beatrice, Neb., has been appointed architect and superintendent of construction for the new Seward county court house, to be built at Seward. Cost, $100,000. J. M. Calder is County Clk.

FT. D. A. RUSSELL, WYO.—Capt. W. S. Scott, Q. M., Cheyenne, informs us that A. I. GRAY, Denver, Colo., has been awarded contract for building one set of officers' quarters and two double barracks, at Ft. D. A. Russell, at $119,780. M. P. KEEFE, Cheyenne, Wyo., four cavalry stables, two double stables for guard and shops, $66,264. R. W. BRADLEY, Cheyenne, one set field officers' quarters, two double sets of captains' quarters, one double set lieutenants' quarters, enlarging guard house, quartermaster's stables and wagon shed, $75,477. ST. JOHN & BARNES, Colorado Springs, Colo., plumbing contract, at $22,802; ST. JOHN BROS., Colorado Springs, heating, $16,645.

LOUISIANA, MO.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until Feb. 28 for construction complete of post-office at Louisiana. (Advertised, Engineering News.)

KANSAS CITY, MO.—Edward T. Orear, of Silver Springs, Md., and L. M. Leslie, Dwight Bldg., Kansas City, will erect a 10-story office building on Baltimore Ave., between Tenth and Eleventh Sts.

COLUMBIA, MO.—Bids are asked by James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., until Feb. 27 for the construction complete of U. S. Post Office. (Advertised, Engineering News.)

LITTLE ROCK, ARK.—F. W. Gibb, Arch., has prepared plans for a store, office and department building, to be erected at Ninth and Main Sts., by Col. F. B. T. Hollenberg. Estimated cost, $100,000.

ST. JOHNS, ORE.—W. W. Goodrich, Arch., Portland, will prepare plans for a $250,000 School of Technology.

FORT WRIGHT, WASH.—Bids are asked until Feb. 1... for construction, plumbing, steam heating, gas piping an... wiring for electric lighting of one double set of lieutenants' quarters and construction of one frame wagon shed. Edw...

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A. Shuttleworth, Q. M. Plans and specifications may be seen at the New York office of Engineering News, 220 Broadway. (Advertised, Engineering News.)

OAKLAND, CAL.—Stone & Smith, Archs., 927 Market St., San Francisco, informs us that bids will be asked about Feb. 1, for heating and ventilating system, etc., for high school building. It will be 75 × 230 ft., of brick, concrete and steel, fireproof. Estimated cost, $140,000; equipment, $10,000.

SACRAMENTO, CAL.—B. P. O. Elks local lodge will call for bids for building a new hall to be erected at J St., east of 9th St. Plans for the building have been adopted. It is to be four stories high and will cost $80,000.

PORT COLBORNE, ONT.—The Dominion Government has awarded the contract for the foundations of the proposed elevator here to LARKIN & SANGSTER, of St. Catharines, at about $200,000.

OTTAWA, ONT.—The contract for the erection in Ottawa of the Canadian branch of the Royal Mint has been awarded to SULLIVAN & LANGDON, of Kingston, the lowest bidders. Cost, about $60,000.

WATER SUPPLY AND IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

QUINCY, MASS.—City is to extend its mains to supply U. S. forts on Peddock Island. About 6,700 ft. of 6 and 8-in. pipe will be required, and 4,000 ft. of this will be laid beneath the water between Nut and Peddock Islands, the Government doing this part of the work.

WORCESTER, MASS.—We are informed that no plans have yet been made for utilization of Asnebumskit water supply. Council has passed order appropriating $50,000 for purpose of making surveys, plans, estimates, etc., and engineer is about to begin work. Frederick A. McClure is Cy. Engr.; Geo. W. Batchelder, Water Comr.

BRIDGEPORT, CONN.—We are informed that Bridgeport Hydraulic Co., S. P. Senior, Supt., intends to build a storage reservoir of about 1,200,000,000 gallons capacity. In the spring about 1½ miles of 16-in. pipe will be removed and will be replaced with 24-in. pipe, the work being done probably by contract. The company has ordered and is prepared to install a 10,000,000-gallon Worthington pump, and two 150-HP. Bigelow return tubular boilers.

WATERBURY, CONN.—In his annual report Robert A. Cairns, Cy. Engr., recommends issue of $75,000 of additional bonds for pumping station and small distributing reservoir and piping, in connection with high service water supply.

LOCKPORT, N. Y.—As mentioned in our last week's issue city has voted to accept proposition of Niagara, Lockport & Ontario Power Co. to furnish it with water from Niagara River. Proposition contemplates the following expenditures: Water-works building, $23,000; two municipal water, steam or electrically driven pumps, 10,000,000 gallons capacity each, $80,000; filtration plant and other necessary apparatus, $125,000; electric motors and other machinery and apparatus for pumps and filter plant, $15,000; two miles 30-in. steel or cast-iron pipe, $52,000; piping and appurtenances, etc., $5,000.

NEWARK, N. Y.—Village votes to bond for $50,000 for purchase of local water-works, and votes also to issue $15,000 bonds for its improvement.

WATERLOO, N. Y.—Special election is called for Feb. 8 to vote on appropriating $800 for making surveys and estimates for water-works and sewers. Elias Vair is Village Pres.

HOPEWELL, N. J.—Election may be held by Town to vote on purchasing plant of Hopewell Water Co. and enlarging and improving it at total expenditure of about $15,000.

LUMBERTON, N. J.—It is stated that work on water system of recently organized Lumberton Light, Heat & Water Co. will be begun in the spring. Geo. F. Reid and J. M. Harrison are interested.

BEAVERTOWN, PA.—George Spaid, Beavertown, Pa.; Jas. G. Thompson, Middleburg, Pa.; T. F. Bradenbaugh, Millersburg, Pa., and H. G. Frederick, Millersburg, Pa., have bought of the Beavertown Water Co. all its right of way, charter, water rights, contracts, etc., and will construct same this coming summer. H. G. Frederick has charge of construction.

ASHEVILLE, N. C.—Construction of reservoir by city is considered. B. M. Lee, Cy. Engr., has estimated cost of 4,000,000-gallon reservoir at $36,085.

DILLON, S. C.—Election may be held soon to vote on granting franchise for installation of water-works and electric light plant.

SPARTANBURG, S. C.—J. B. Cleveland, Pres. Home Water Co., is reported to be having plans prepared for establishment of auxiliary plant for water-works at Boiling Springs, eight miles from city.

WASHINGTON, GA.—Contract for improving water-works of this city, bids for doing which were opened Jan. 5, has been let to PHILADELPHIA WRECKING & CONTRACTING CO., 123 West Saratoga St., Baltimore, Md., for $29,653. N. Wilson Davis, Harrisonburg, Va., was Consult. Engr. Itemized bids will be given under Contract Prices.

JACKSONVILLE, FLA.—Bids are asked by Trustees Water-Works and Improvement Bonds until Feb. 6 for furnishing a single acting triplex stuff pump, geared to a three-phase, 210-volt induction motor. Bids will also be received on same date for sinking a 10-in. artesian well to depth of 980 ft. R. N. Ellis, Supt. W. W.

ENSLEY, ALA.—Stock company is reported to have been organized to furnish this city water, supply to be obtained from Warrior River. Capt. J. W. Baker may be interested.

ELLISVILLE, MISS.—City, according to reports, is to at once take steps toward putting in water-works. W. V. Walters is Mayor.

HAMMOND, LA.—We are informed that bond issue for water-works is to be voted on Feb. 7; election projected for Jan. 10 was not held. H. A. Kohnke is Mayor.

NEW ORLEANS, LA.—The contract for water-works pumping machinery for the Sewerage and Water Board of New Orleans, bids for which were received Nov. 9, will be readvertised at an early date, all bids on first letting having been rejected on account of a technicality urged by the Attorney of the Holly Manufacturing Co., consisting in the fact that the Sewerage and Water Board had not passed a formal resolution of approval of the specifications prior to the letting.

FALMOUTH, KY.—We are informed that contract for hauling, distributing and laying 2,448 ft. 6-in. cast-iron water pipe (bids received Jan. 9) has been let to W. G. OLDHAM, Falmouth, for $412. E. E. Barton is Contracting Engr. for city.

LOUISVILLE, KY.—Board of Asylum Commissioners of Central Asylum for Insane at Lakeland are reported to be considering plans for erection of 50,000,000-gallon storage reservoir.

BARBOURSVILLE, KY.—We are informed that new franchise for water-works at this place has been granted H. A. Moore, Barboursville, representing eastern capital.

ASHTABULA, O.—Citizens have voted down proposition to issue $250,000 of bonds for building water-works. Lewis A. Amsden is Cy. Engr.

DELTA, O.—Riggs & Sherman, Consult. Engrs., Toledo, O., are making plans and estimates for water-works and sewerage for this place. Matter will be voted on.

LAKEWOOD, O.—Bids are asked by Henry W. Burton, Village Clk., until Jan. 21 for laying water main in Warren Road. Wm. H. Evers Engineering Co., Arcade Bldg., Cleveland, O., Engrs.

TOLEDO, O.—Plans and specifications are under way for the new filtration plant which city proposes to construct on Doyle-Kumler tract. It is possible that plans will be completed by Feb. 1. A $500,000 bond issue has been authorized for the plant. F. I. Consaul is Cy. Engr.

COLUMBUS, IND.—Special Council Committee has been instructed to buy new boilers for water-works plant.

RUSHVILLE, IND.—Council has ordered that city water-works plant be improved; new wells will be driven.

SOUTH BEND, IND.—Referring to proposed increase of water supply we are informed that A. J. Hammond, Cy. Engr., submitted plans and a general outline, covering a power plant, distribution system and reservoir. It was impossible to proceed as funds did not materialize. It is possible that a power pump of three or four million gallons capacity will be installed.

SOUTH BEND, IND.—Bids are asked by South Bend City Water-Works until Feb. 8 for furnishing all cast-iron coated water pipe, bell and spigot pattern required during 1905; sizes from 6 ins. to 12 ins., inclusive; quantity not to be less than 750 tons or more than 1,250 tons. W. A. McInerny, Bd. Pub. Wks.

CLARE, MICH.—Village will vote on $13,750 bond issue for new water-works and water main extensions.

GLENWOOD, MICH.—Special election was to be held Jan. 18 to vote on bonding village for $15,000 for constructing water system to connect with that of Wyandotte at Oak St.

CHRISMAN, ILL.—Bids are asked by Mayor and Council until Feb. 7 for pumping machinery, pipe, hydrants, valves, etc., for water-works; bids are asked also for steel work of water tower, erected on brick substructure complete. G. C. Morgan, 169 Jackson Boulevard, Chicago, is Engr. J. T. Johnson, Mayor; Jas. Heidrick, Cy. Clk.

ASHTON, ILL.—Franchise for water-works has been granted to Dr. H. A. Bremmer, representing a local stock company to be formed and which will be incorporated with $12,000 capital. It is proposed to commence construction work in the spring.

CHARLOTTE, IA.—Water-works considered.

ST. PAUL, MINN.—Bids are asked by Water Commissioners, John Caulfield, Secy., until 12 m., Jan. 20, for valves and service boxes; 1,500 stop boxes with the privilege of 250; valve boxes from 4 to 16 ins.; also for cast-iron specials. Also for water gates, 4 to 16 ins.; and 16, 20 and 24-in. geared. Also for water pipe: 1,000 ft. 4-in.; 20,000 ft. of 6-in. with privilege of 10,000 ft. more; 2,000 ft. 12-in. with privilege of 8-in. with privilege of 1,000 ft. more; 8,000 ft. of 12-in. with the privilege of 2,000 ft. more; 2,000 ft. of 16-in. with privilege of 1,000 ft. more. Also for hydrants.

YATES CENTER, KAN.—Burns & McDonnell, Civil, Hydraulic and Sanitary Engrs., of Kansas City, Mo., have been engaged to prepare surveys, plans and specifications for a water-works plant for this place. Contracts will not be let for about two months or more.

KANSAS CITY, KAN.—M. V. Watson, Vice-Pres. United States & Mexican Trust Co. and representing Eastern capitalists, has submitted ordinance before Council asking for franchise to supply that city with water for a period of 20 years. If franchise is obtained a plant will be erected.

NORTH PLATTE, NEB.—City votes to issue $60,000 of bonds for erecting water-works. Wm. Yost is Cy. Clk.

OSCEOLA, NEB.—Contract for constructing distributing system for city water-works has been let to WILLIAM TULLY, Joliet, Ill.; reported cost of work is $15,000.

OMAHA, NEB.—The Board of Engineers selected to set a value on the plant of the Omaha Water Co., which the city proposes to purchase, will meet Jan. 20 to commence the work of appraisement. The board began its sittings in Omaha in September and has held some eight hearings to secure information concerning the plant. The appraising board is made up as follows: John W. Alvord, Chicago, Ill.; George H. Banzenberg, Milwaukee, Wis.; Daniel W. Mead, Chicago, Ill.

DEADWOOD, S. DAK.—The contract for the proposed water-works at this place, for which $130,000 in bonds have been issued, will be let Jan. 25. The check to go with the bid must be $5,000, and the surety 20% of the total bid. Lump bids only will be received. The above work is advertised in Engineering News.

FORT KEOGH, MONT.—Bids are asked by W. W. Robinson, Jr., C. Q.-M., St. Paul, Minn., until Feb. 9 for installation of water supply system at Fort Keogh.

CASSVILLE, MO.—City votes to issue bonds for building water-works.

DE SOTO, MO.—John J. Hainsworth, Indianapolis, Ind., has been appointed Consulting Engineer in matter of construction of water-works and electric light plant for this city. H. D. HALLETT, De Soto, is Contractor.

CANON CITY, COLO.—Town Council of South Canon have granted franchise to D. C. Lacking, Supt. U. S. Smelting & Refining Co., to establish water-works for that place. Source of supply is to be from artesian wells, six miles distant; storage reservoir will be built and gravity system installed.

PUEBLO, COLO.—South Side Water Consumers Association will have bill before legislature to authorize that portion of Pueblo south of Arkansas River to issue bonds for creation of municipal water plant.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

GLENWOOD SPRINGS, COLO.—Special election to vote on renewal of franchises of Glenwood Light & Water Co. resulted in tie vote and matter will probably be submitted again.

SEASIDE, ORE.—Village will petition legislature for leave to issue $12,000 of bonds for extending its water system.

FULLERTON, CAL.—Fullerton City Water-Works Co. has been incorporated with $100,000 capital. E. C. Henderson, Los Angeles, Cal., is interested.

RIVERSIDE, CAL.—Bids are asked by A. C. Tonner, Acting Comr. Indian Affairs, Washington, D. C., until 2 p. m., Jan. 24, for furnishing material and labor required to complete extensions to water, sewer and electric lighting system at Riverside School.

SAN BERNARDINO, CAL.—City Trustees are stated to have awarded contract for about six miles of additional mains to GEORGE M. COOLEY CO. for $10,938. Pipe will be made by Baker Iron Works, Los Angeles, Cal.

VENTURA, CAL.—Engineers have reported to Board Trustees setting cost of municipal pumping system at $100,000 and electric light plant at $25,000.

SALT LAKE CITY, UTAH.—Citizens have voted to issue $1,000,000 of bonds for water-works and sewerage purposes. Geo. W. Snow is Cy. Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW BEDFORD, MASS.—William F. Williams, Cy. Engr., writes us that question of building Crapo and Lucas Sts. sewers, mentioned on Jan. 5, has been referred to city government, which has not yet taken action upon it.

NORTHAMPTON, MASS.—Theobald M. Connor, Mayor, in his inaugural address advocates construction of new sewer system. Four plans are under consideration, as follows: (1) The installation of filtration beds in the meadows; (2) construction of a large trunk sewer extension to the Connecticut River, 66 ins. in diameter; (3) the continued use of Mill River as a part of the system with the addition near the present sewer outlet of an adequate overflow; (4) the same construction used under the third plan, with the addition of a sewer extension 24 ins. or more in diameter to the Connecticut River. All these plans, except the third, provide for the removal of sewage from Mill River. State Board of Health has decided that, under existing conditions, city can no longer continue discharging sewage into Mill River. Estimated cost of trunk sewer (2) is about $88,000 to $110,000. The third plan would cost $20,000. With certain changes the adoption of this plan is recommended.

WATERBURY, CONN.—It is reported that plans are under consideration for constructing a sewage disposal plant. Contracts probably will be let in the spring. Robt. A. Cairns is City Engr.

BRIDGEPORT, CONN.—Common Council Sewer Committee estimates that new sewers and cost of extensions and repairs to present ones will aggregate $22,300. The largest contracts will be the Noble Ave. trunk sewer continuation, at estimated cost of $4,000; the Charles St. sewer, $2,200; Wilmot Ave. trunk sewer, $3,500. E. T. Buckingham is Cy. Clk.

AUBURN, N. Y.—Plans for sewers and a sewage purification plant for the Fourth, Fifth, Sixth and Seventh Wards Sewer District, are being prepared by Geo. S. Pierson, M. Am. Soc. C. E., Kalamazoo, Mich.

BINGHAMTON, N. Y.—S. M. Baird, Cy. Engr., is said to be considering a plan for placing a filtering plant for a sewage system in the western part of the city.

NEW ROCHELLE, N. Y.—Bids are asked by the Board of Sewer Commissioners until Feb. 15 for the construction of about 1,875 ft. of 30-in. submerged cast-iron pipe sewer under the waters of an arm of Echo Bay, the work including the construction of a sand catcher, rising well, and other appurtenances. Geo. W. Sutton, Chn.; James Knapp Wilkes, Engr. (Advertised, Engineering News.)

MAMARONECK, N. Y.—Contracts for constructing sewers for this village, bids for doing which were opened Jan. 4, have been let as follows: A. S. TRAUB, 215 W. Main St., New York, Boston Post Road, Sec. 1, $3,411, Winfield Ave., Sec. 1, $700; HAWMAN BROS., Reading, Pa., Boston Post Road, Dec. 2, $4,762, Mamaroneck Ave., Sec. 1, $3,432. Charles W. Buckter, Village Clk.

WEST NEW YORK (Weehawken post-office), N. J.—Contracts for sewers, costing about $35,000, have been awarded to the following parties: HENRY & EMMER, 17th St. sewer, from Jackson St. to the Hudson Boulevard; AUGUST THEIL, West 23d St., from Sixth St. to the Hudson Boulevard and 20th St.; CAPONE & TROST, Eleventh St. sewer; C. M. CARHART, East 23d St. and Polk St. sewer.

CALDWELL, N. J.—R. C. Bethell informs us that a sewer system is considered, but that no definite plan has been accepted. Construction work may be taken up this year. Noted Jan. 5. Estimated cost, $10,000.

MT. CARMEL, PA.—$100,000 bond issue is recommended. If voted, the present sewer system will be extended and probably completed.

BALTIMORE, MD.—Edward Hirsh has been appointed chairman of Sewer Committee by Public Improvements Committee. This sub-committee includes, also, Gustavus Stegmund, J. Harry Tregoe, Patrick Flanigan, Henry L. Brack and J. Barry Mahool. James H. Smith, Secy. of Improvement Committee, may be addressed at 221 St. Paul St. At May election the proposition to issue $10,000,000 bonds for sewerage will be submitted to general vote. A former report upon this subject placed cost of modern sewer system at between $6,000,000 and $8,000,000. The Merchants and Manufacturers' Association has announced itself in support of the project.

It is stated that the first branch of city council has passed the ordinance appropriating $17,700 for a sewer in Howard and Centre Sts.

HILLSBORO, N. C.—J. H. Webb, Treas. Eno Cotton Mills, states that the company will construct a sewage disposal plant.

DILLON, S. C.—Plans will be prepared by Frederic Minshall, Abbeville, S. C., for a sewer system.

ATLANTA, GA.—Council sewer committee, E. C. Peters, Chn., has available $106,000 for extension of trunk sewers. The Mineral Springs sewer will be extended and completed. An appropriation has been made already for this work. Capt. R. M. Clayton is Cy. Engr.

Council will take action regarding plan to build a septic tank or purification plant at the mouth of the Proctor Creek sewer. It will cost $100 000 to $150,000. A number of these plants will later be constructed at mouths of all trunk sewers. James G. Woodward is Mayor.

MACON, GA.—Bonds for $40,000 have been sold. The money is for sewer construction.

GULFPORT, MISS.—Mayor Moore announces himself in favor of a better sewer system. Frank Martin is Cy. Clk.

LOUISVILLE, KY.—J. B. F. Breed, Cy. Engr., is preparing plans for sewerage, which will be presented soon to general council. The council has made an appropriation of $6,428 for construction and repair of sewers for the fiscal year of 1905. In addition to this sum the city will have available about $24,000 for the sewer fund from the city sinking fund, $250,000 of 3% bonds issued for sewer construction several years ago have never been sold.

TOLEDO, O.—Several sewers will be constructed in North Toledo. Bids are asked until Jan. 19 for building sewer No. 897. Estimated cost, $100,000. This sewer will empty into Maumee River at foot of Columbus St.

BARBERTON, O.—Cost of reconstructing the main sewer of sanitary sewer district No. 1 is estimated at $5,500. It will run from Sterling Ave. to Wolf Creek. Concrete brick is recommended by Engineer Collins.

CINCINNATI, O.—The cost of a sewer in Colerain Ave. from the Jerome Ave. sewer to the north corporation line is estimated at $16,047.

YOUNGSTOWN, O.—F. M. Lillie, Cy. Engr., will prepare estimates for sewering and paving West Federal St. with Medina block. Probable cost, $38,000.

DAYTON, O.—Bids are asked until Jan. 20, by Board Public Service, for constructing sanitary sewers in two portions of Dist. No. 4; one portion to consist of 2,280 lin. ft. 8 and 10-in. pipe sewer, nine manholes and one flush tank, and the other to consist of 9,290 lin. ft. 8 and 10-in. pipe sewer, 21 manholes, eight flush tanks and ten lamp holes. Wm. F. Miller, Clk.; Louis Haas, Pres.

ST. BERNARD, O.—Bids are asked by George Meyer, Village Clk., until noon, Feb. 3, for constructing sewers in Leonard Ave., Albert and Bertus Sts. F. J. Stewart, Engr., Traction Bldg., Cincinnati.

CEDAR LAKE, IND.—Bids are said to have been received for a drainage scheme, at Cedar Lake, requiring about one mile of open ditch and 2,000 ft. of 30-in. tile or pipe to be laid in a 20 to 35-ft. cutting. Estimated cost, $9,000. F. Knight & Son, Crownpoint, Ind., are reported to be in market for quotations on double strength pipe, also on concrete and on brick for the pipe.

HUNTINGDON, IND.—Henry H. Wagoner, City Engr., is reported to have stated that it is proposed to construct the Rabbit Run sewer, of brick and cement, at a cost of $30,000.

PAW PAW, MICH.—Plans for sewers have been prepared by Geo. S. Pierson, M. Am. Soc. C. E., Kalamazoo, Mich. Construction probably will commence early in the spring.

BAY CITY, MICH.—Bids are asked until 2.30 p. m., Jan. 23, for construction of a 26 × 39-in. egg-shaped main brick sewer in Belinda St. M. J. O'Malley, Chn. Bd. Pub. Wks.

GRAND RAPIDS, MICH.—Common council has adopted plans for construction of West Side trunk sewer. Estimated cost, $203,960. Plans provide for a pumping station at the mouth of the sewer, which, with equipment, will cost $65,870. The Pere Marquette siding to the Thum fly-paper factory will be raised to 15 ft., at a cost of $2,760, and a small pumping station will be installed at the mouth of the Letellier St. sewer, at cost of $3,000. Details noted on Dec. 29. L. W. Anderson is Cy. Engr.

BALTIMORE, MD.—Separate bids are asked until 11 a. m., Jan. 25, by Department of Public Improvements for furnishing vitrified sewer brick, vitrified sewer pipe, American Portland cement, etc., for City Engineer's Department during 1905. B. T. Fendall, Cy. Engr. E. Clay Timanus, Pres. Bd. Awards. Bids will be received by Harry F. Hooper.

WYANDOTTE, MICH.—Prof. Gardner S. Williams, of University of Michigan, has recommended to council that the Riggs & Sherman system be used in constructing proposed sewerage. Appropriation has been made.

PERRY, IA.—It is reported that M. A. Earl, Engr., of Chicago, will prepare plans for a sewer system for this place.

DAVENPORT, IA.—Contract for 17,600 ft. of sewerage has been awarded to the PEOPLE'S CONSTRUCTION CO., at $67,408.

ST. PAUL, MINN.—E. J. Kirkland was lowest bidder, at $1,790, on Arbor St. sewer contract.

TOPEKA, KAN.—It is reported hat bids will be received until Feb. 6 for brick and pipe sewerage construction. Estimated cost, $85,000. Plans, etc., prepared by James F. McCabe, Cy. Engr.

OMAHA, NEB.—A committee will ascertain cost of building a sewer system in South Omaha. Andrew Rosewater is Cy. Engr.

KANSAS CITY, MO.—Board of Public Works is considering plans and specifications by E. A. Harper, of city engineering department, for the enlargement and extension of sewer system, for which the city proposes issuing $1,300,000 of bonds. Mr. Harper will become City Engineer on Feb. 1. Improvements contemplated are as follows: To carry the drainage of the Turkey Creek and O. K. Creek valleys through the West Bottoms to Missouri River, $850,000; other incidental improvements in this watershed, $250,000; drainage of the Brusk Creek valley, including $117,000 for the Harris branch, $263,000; Gooseneck Creek watershed, $69,123; drainage of the Blue River valley from Brush Creek to the Missouri, $52,577; total, $1,484,690. The sewer systems planned will drain 15,000 acres, or nearly 22 square miles. Septic tanks and filter beds are recommended. They will be installed at 47th St. and Broadway, at cost of about $17,000; Woodland Ave., $84,000; between Euclid and Brooklyn, $45,000.

LOS ANGELES, CAL.—New bids for supplying vitrified brick for the outfall sewer were received as follows: Oswald & Kehht, $6.45 per 1,000; Standard Brick Co., $6.38; Southern California Brick Co., $6.38; Los Angeles Press Brick Co., $6.35 (at Santa Monica); The Independent Brick Co., $6.40. All bids referred to the sewer committee.

RIVERSIDE, CAL.—New Bids are asked for building 12th St. sewer.

SAN FRANCISCO, CAL.—The Board of Public Works has recommended that the Mission St. be widened from Second to East Sts., and that the sewer be reconstructed. This expense was provided for in the bond issue; the cost is estimated at $220,000.

GARBAGE DISPOSAL—STREET CLEANING

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Capt. A. W. Gates, Q. M., U. S. A., writes that contract for constructing garbage crematory at Fort McKinley, Me., was let to MUNICIPAL ENGINEERING CO., New York. Bids were opened Dec. 7.

BOSTON, MASS.—James Donovan, Supt. Sts., Joseph J. Norton, Deputy Supt. Street Cleaning Dept., and D. P. Sullivan of Sanitary Division have been making a tour of inspection of incinerating plants and methods of garbage disposal in the West. It is stated that the city will soon have to take steps to secure a new method for disposition of its refuse and garbage.

CAMBRIDGE, MASS.—In his inaugural message Mayor A. J. Daly favored establishment of crematory for light refuse at the Raymont St. yard.

WOBURN, MASS.—Mayor Lawrence Reade has recommended that Board of Health at once take action regarding proper disposition of garbage and refuse.

PLAINFIELD, N. J.—Charles J. Fisk, Pres. Common Council is advocating inauguration of municipal system of garbage collection and disposal.

JACKSONVILLE, FLA.—Board Public Works has been considering proposition of Judge A. O. Wright for installation of garbage reduction plant.

CHICAGO, ILL.—Council finance committee has recommended that bids be taken for the sanitary disposal of garbage. Firms will be asked to submit propositions under specifications drawn up by Commissioner of Public Works Block.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—Common Council has decided to pave Wood, and Wilbur Aves. with brick or asphalt.

BUFFALO, N. Y.—Bids are asked by Department Public Works until Jan. 25 for paving on West Parade Ave., Guthrie Alley, Champlin St. and Commercial St. Francis G. Ward, Comr.

NEWARK, N. J.—Jas. W. Leahy, Engr., 127 Glenwood Ave., Jersey City, and James Owen, Engr., 196 Market St., City, have been appointed by joint committee of Hudson and Essex County Boards of Freeholders to prepare plans and specifications for the improvement of plank road across Hackensack meadows.

PHILADELPHIA, PA.—It is stated that the contract for repairs to asphalt streets for 1905 has been awarded to FILBERT PAVING & CONSTRUCTION CO., 1507 Sansom St., at $1.67 per sq. yd.

BALTIMORE, MD.—Bids are asked until Jan. 25, 11 a. m., for grading, curbing and paving on Smallwood St., with Belgian blocks. B. T. Fendall, Cy. Engr.

Bids will also be received until Jan. 25 for sand, paving stone, paving blocks, etc., for the year 1905.

WASHINGTON, D. C.—Bids are asked by District Commissioner until Feb. 18 for grading 14th St. extended. (Advertised, Engineering News.)

FORT MOULTRIE, S. C.—Bids are asked by F. L. Buck, Q. M., until Jan. 27 for constructing concrete walks in front of single and double barracks here.

BRAIDENTOWN, FLA.—The proposed issue of $200,000 road improvement bonds has been favorably decided. Address County Clk.

MONTGOMERY, ALA.—Byron, Suders & Co., of Atlanta, Ga., were the lowest bidders, at $28,834, for paving of South Hill, Mildred and Monroe Sts., and Madison Ave. D. W. Ford is Cy. Engr.

POPLARVILLE, MISS.—City has voted to issue bonds for road work. Address Mayor.

NASHVILLE, TENN.—City Council has passed a resolution to petition the legislature for authority to issue $500,000 street bonds. Mayor can inform. W. W. Southgate is Cy. Engr.

MEMPHIS, TENN.—Local press reports state that Second St. will be paved. J. A. Omberg, Jr., is Cy. Engr.

LOUISVILLE, KY.—Contract for paving a large number of streets has been awarded to L. R. FIGG.

TOLEDO, O.—Council has decided to repave Jefferson Ave., Water and Idaho Sts. Frank I. Consaul is Ch. Engr. Bd. Pub. Serv.

CINCINNATI, O.—Council has declared it necessary to pave Liston Ave. with bitulithic macadam. Est. cost, $300,000.

CINCINNATI, O.—Bids are asked by Board Public Service until Feb. 2 for improving Beekman St. by grading, curbing and paving. Geo. F. Holmes, Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until Feb. 1 for grading, and paving on Observatory Ave. and Oliver St.

LORAIN, O.—The American Ship Building Co. will soon ask for bids on grading which is to be done on east side of river. 90,000 yds. of earth is to be removed.

DAYTON, O.—The Council will improve East Fifth St. and Curtis Ave. F. M. Turner is Cy. Engr.

COLLINGWOOD, O.—J. B. Davis & Son., 242 The Arcade, Cleveland, informs us that the work of improving Collinwood Ave. has not been advertised.

CANTON, O.—F. E. Myers, Cy. Engr., informs us that the following streets are to be improved: East Fourth St., 8,340 sq. yds., est. cost, $17,815; Mahoning St., 21,280 sq. yds., $214,249; East Third St., 5,460 sq. yds., $9,574; Schwalin St., $7,223; Second St., $4,210. Several other streets will be improved by grading, paving, laying walks, etc.

RICHMOND, IND.—H. L. Webber, Cy. Engr., informs us that the contract for macadamizing Northwest Second St. will be let some time in March. Est. cost, $5,000.

BAY CITY, MICH.—Bids are asked by County Clerk until Feb. 4 for supplying Bay County Road Commission with crushed stone and gravel for the year 1905. J. H. Blomshield, Engr.

DANVILLE, ILL.—City Council has an ordinance providing for the opening, widening and extending of English St.

FRANKLIN PARK, ILL.—Bids are asked by A. E. Wasson, Vil. Clk., until Feb. 6, for constructing cinder sidewalks. H. L. Emerson, Engr., 1311 Chamber of Commerce Bldg., Chicago.

MADISON, WIS.—Bids are asked by J. F. Icke, Cy. Engr., until Feb. 15 for macadamizing various streets. Cost, $30,000.

SUPERIOR, WIS.—Board Public Works will recommend to Common Council that the contract for paving First St. be let to Whitney Bros.

DULUTH, MINN.—Whitney Bros. were the lowest bidders for paving of First St. and will probably receive contract.

TOPEKA, KAN.—Bids are asked by J. H. Sloan, Cy. Clk., until Feb. 6 for 14 blocks of brick pavement. Jos. F. McCabe Cy. Engr.

ST. LOUIS, MO.—It is reported that bids will be received by Board Public Improvements until Jan. 27 for improving several streets.

SEATTLE, WASH.—Ordinances have been passed by City Council ordering the improvement of several streets at an estimated cost of $82,000. R. H. Thomas, Cy. Engr.

TACOMA, WASH.—An ordinance providing for improvement of M St. has been introduced into Council. Frank L. Davis is Cy. Engr.

SAN FRANCISCO, CAL.—It is reported that Fulton St. will be paved. Cost, $15,000. Thos. P. Woodward is Cy. Engr.

SAN BERNARDINO, CAL.—Bids are asked by W. A. Pfeiffer, Clk. Bd. of Supervisors, until Jan. 23 for construction of a road.

LOS ANGELES, CAL.—Bids are asked by C. G. Reeves, Clk. Bd. of Supervisors, until Jan. 30 for grading, etc., on California St.

HAYWARD, CAL.—Contract for grading and macadamizing county road leading from Hayward and San Leandro road to San Lorenzo was awarded to E. B. & A. L. STONE CO.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—Cotton mill No. 1 of the Edwards Mfg. Co. was destroyed by fire. Loss, $75,000.

PORTLAND, ME.—The United Printing Machinery Co. has been incorporated with $500,000 cap. stock. C. C. Buckman, of Newton, Mass., is Pres.

NASHUA, N. H.—The Nashua Mfg. Co. has prepared plans for a three-story addition, 50 × 100 ft., to its plant. Work will be started in the spring.

WORCESTER, MASS.—It is reported that the Heywood Boot & Shoe Co. will build soon.

LEOMINSTER, MASS.—Preliminary bids have been received by Freeborn G. Smith for a four-story brick piano factory, 150 × 40 ft.

LYNN, MASS.—The Hadley Cement Co. will build a factory. Address Chas. Hadley.

PAWTUCKET, R. I.—Plans have been prepared by Karl H. Hyde, Arch., for a new factory for James E. Blake.

BRIDGEPORT, CONN.—Figures have been taken for a large addition to plant of Salt Textile Co., on Kossuth St. L. H. Gager, Engr., prepared the plans.

SYRACUSE, N. Y.—The Syracuse Asbestos Co., recently incorporated with $100,000 cap. stock, will erect a plant. Cost, $75,000. Directors: Walter A. Beattie, Clayton H. Wilcox, E. L. Loomis and H. E. Miller.

The Halcomb Steel Co. has been incorporated and will, it is reported, build a steel plant here. Capital, $460,000.

It is stated that the Archbold-Brady Co., University Block, will build a plant, 200 × 100 ft., for the manufacture of electrical apparatus.

ROCHESTER, N. Y.—Leon Stern, Arch., Chamber of Commerce Bldg., is preparing plans for a five-story factory building to be erected at Main St., W. and Elizabeth St., for Van Bergh Silver Plate Co. Bids will be advertised for.

NEWARK, N. J.—It is stated that A. Connelly, Arch., 142 Market St., will receive bids for a factory building, 40 × 230 ft., 1 and 3 stories, for Sterling Leather Works.

NEWARK, N. J.—Bids are asked until Jan. 20 for building a two-story factory, boiler and engine house, 40 × 150 ft., and 30 × 40 ft., for Fred. Loute. Cost, $25,000. A. D. Heyne, 810 Broad St., is Arch.

READING, PA.—The Neversink Dye Works is contemplating the erection of an addition to its plant, at Orange and Muhlenberg Sts.

PHILADELPHIA, PA.—Henry C. Dahl, Arch., 241 South Sixth St., is preparing plans for a four-story factory.

Contract for building a plant at 12th and Race Sts., for Leu Harrison & Co., was awarded to PATRICK J. HURLEY, 1216 Chancellor St. Cost, $30,000.

Bids were received Jan. 18 by C. E. Schermerhorn, Arch., 430 Walnut St., for a manufacturing plant. Mill, 360 × 80 ft.; power house, 40 × 60 ft.; foundry, 100 × 60 ft.; woodworking plant, pattern house, stables, etc.

Contract for cold-storage plant and warehouse for Penna Cold Storage & Market Co., has been awarded to ARMSTRONG & LATTA, Land Title Bldg.

PITTSBURG, PA.—The Pittsburg Brewers' & Bottlers' Supply Co. has been chartered, with a capital of $20,000. John J. O'Reilly, 5657 Stanton Ave., is one of the incorporators.

CHESTER, PA.—W. F. Price, Arch., 1731 Walnut St., Philadelphia, has plans ready for bids for a factory here, for Philadelphia Quartz Co.

YORK, PA.—Plans are being prepared by W. O. Weaver & Son, Archs., Harrisburg, for cigar factory here for United Cigar Co., New York. Brick, 3 stories, 41 × 175 ft. Cost, $25,000.

PHILADELPHIA, PA.—Wm. Steele & Sons, have plans posted for construction of a foundry, two stories, 90 × 103 ft., at 17th St. and Pennsylvania Ave., for Crompton-Knowles Loom Works.

READING, PA.—L. D. Lauce, Arch., Third and Buttonwood Sts., is preparing plans for a three-story factory.

BALTIMORE, MD.—The United States Brick Co. has decided to erect a plant here, having a capacity of 1,000,000 bricks per day. Albert A. Gery, Reading, Pa., is Pres. Plans will be prepared immediately.

WINCHESTER, VA.—The Virginia Woolen Mills will double its capacity and install $40,000 worth of new machinery in addition to its new buildings.

MARTINSVILLE, VA.—The Virginia Spoke & Handle Co. has been chartered with $20,000 cap. stock. N. S. Goode is Pres., Alumine, Va.

MARTINSVILLE, VA.—A canning factory will probably be erected here. Address John W. Carter for information.

WAYNESBORO, VA.—A stove manufacturing plant will probably be erected here, with A. L. Russell, manager. Capital, $50,000.

RICHMOND, VA.—The Coffee Machine Co. has been incorporated with W. J. Whitehurst, Richmond, president. Capital stock, $15,000.

RICHMOND, VA.—Warner, Moore & Co. will rebuild their grist mill, at a cost of $15,000. Machinery purchased.

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NORTON, VA.—L. O. Pettit has purchased the mattress factory of Norton Mfg. Co. and will enlarge the plant, adding new machinerw for cutting excelsior.

MARLINGTON, W. VA.—The Greenbrier River Lumber Co. will rebuild its plant, which was burned recently.

ELIZABETH CITY, N. C.—Kramer Bros. & Co. will make extensive improvements in the spring to saw mill which they now operate.

NASHVILLE, N. C.—J. D. Overton and B. B. Whitaker will erect a planning mill here.

DALLAS, GA.—W. E. Spinks, J. W. Hay and others will erect a knitting mill here at a cost of between $5,000 and $10,000.

JACKSONVILLE, FLA.—The Jacksonville Cooperage Co. will erect two factory buildings.

LEEDS, ALA.—The erection of a cotton mill at this place is contemplated. J. B. Elliott can give information.

HUNTSVILLE, ALA.—The Rowe Mfg. Co. will increase the capacity of its mill by installing additional machinery. W. H. Rowe, Jr., is Pres.

ALEXANDRIA, LA.—Henry A. Childress and others of New York will establish a $100,000 furniture factory here. The Mayor can probably give information.

MELVILLE, LA.—E. G. Richard and others, of this place, will organize a $50,000 company to erect an oil mill.

CEDAR HILL, TENN.—McMurray & Dowlin, of Springfield, and George & Parish, City, have purchased a site and will erect a stave and heading factory here.

KNOXVILLE, TENN.—The Proctor Furniture Co. will double the capacity of its factory. The capacity of dry kiln will be increased from 60,000 ft. to 120,000 ft. J. C. Sterchi is Gen. Mgr.

NASHVILLE, TENN.—H. C. Phillips and M. A. Parrell will establish a laundry here.

CHATTANOOGA, TENN.—The Wm. White & Sons Foundry Co., of Dayton, O., will remove to this city and erect a large foundry.

MEMPHIS, TENN.—The Gwynne-Treadwell Cotton Co., capital $10,000, has applied for a charter. Incorporators: Andrew D. Gwynne, Lawson H. Treadwell, Chas. F. Dobb and Frank D. Farabee, all of Memphis, and James Fussell, of Forest City, Ark.

YOUNGSTOWN, O.—The Youngstown Ore Reduction Co. has been organized to build an experimental plant here. John S. Harrington, Dallas Bank Bldg., can inform.

BUCYRUS, O.—The Bucyrus Cement Building Block Co. has been organized here and will erect a plant. Capital, $10,000.

NORWOOD, O.—Bert L. Baldwin, Arch., 72 Perrin Bldg., Cincinnati, has plans for factory buildings for Dana Mfg. Co., to be erected here.

JACKSON, MICH.—Claire Allen, Arch., will probably prepare plans for a three-story building, 60 x 300 ft. for the Novelty Mfg. Co.

OWOSSO, MICH.—The Owosso Casket Works, Fred. Woodward, Pres., has plans prepared for a five-story addition, 80 x 100 ft., to factory building. Will probably build in the spring.

VICKSBURG, MICH.—We are informed that GEO. A. McKEEL & CO., LTD., of Jackson, Mich., have been awarded contract to equip the Lee Paper Mill, City, complete with roller bearings. This plant is claimed to be one of the largest paper mills in America.

LUDINGTON, MICH.—Tubbs Mfg. Co. has decided to erect a three-story addition, 50 x 200 ft. Contract to be let soon. F. M. Bashelier is Gen. Mgr.

CHICAGO, ILL.—The general contract for factory to be erected at 2347-59 South 41st Court, for Western Felt Works has been let to W. J. SCOWN BLDG. CO. Brick and stone, 1 story, 200 x 100 ft., 87 x 50 ft. and 38 x 40 ft. Cost, $75,000.

VALLEY PARK, MO.—The plant here of the St. Louis Plate Glass Co. was partially destroyed by fire. Loss, $250,000.

JOPLIN, MO.—W. H. Warren and associates will establish a packing plant in this city.

WACO, TEX.—Plant of the Waco Steam Laundry, burned recently, will be rebuilt at once. It was owned by Crow Bros.

LEXINGTON, OKLA.—The Lexington Creamery & Ice Co. has been incorporated with $10,000 cap. stock. Incorporators: Jay Sherman, R. G. Coffee, E. M. Abernathy, S. C. Hawk, and Thompson Connelly, all of this city.

SEATTLE, WASH.—Plans have been completed by J. O. Taft, Arch., for new plant to be erected by Queen City Mfg. Co., which as now planned will cost about $25,000. Bids will be awarded on three buildings, a two-story factory, a dry kiln and a boiler house. Boiler house will be surmounted by a large iron smokestack. No definite date set for awarding bids, but contract is to be placed as quickly as possible.

PORTLAND, ORE.—The Holmes Coal & Ice Co. is preparing to erect a plant to cost about $40,000.

OAKLAND, CAL.—The construction of four manufacturing plants is to be commenced here in the near future. Plans have been perfected for a branch of Rose Brick Co. an Eastern firm to be managed by H. C. Stillwell of Fruitvale. The Plastic Co., a branch of the first mentioned company will establish a tile factory at the same time. As a by-product a brick chemical and carbonic gas plant will be installed. Docks will also be built. Cost, $1,000,000.

RENO, NEV.—Reno Brewing Co. has awarded contract to BURKE BROS. for a four-story addition to brewery, 100 x 28 ft. Company has arranged to erect a new bottling works and other additions in the spring.

BROCKVILLE, ONT.—The plant of the Canada Carriage Co. was damged by fire. Loss, $200,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCH.—Toledo, O.—County Commissioners have authorized widening of Fritch Ditch at cost of about $25,000.

DRAINAGE DITCH.—Columbus, Neb.—County Commissioners are considering construction of 12-mile drainage ditch near Oconee to cost about $20,000.

WHARF ENLARGEMENT.—Grondines, Que.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., Ottawa, Ont., until Jan. 27 for enlargement of wharf at this place.

DREDGING.—Detroit, Mich.—Bids are asked until Feb. 16 for dredging in lower Detroit River. Lt.-Col. Chas. E. L. B. Davis, U. S. Engrs. (Advertised, Engineering News.)

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

WELL DRILLERS.—Fayette, Miss.—C. H. Jenks, C. E., Fayette, wants to be placed in correspondence with well drillers.

50-HP. ENGINE AND 60-HP. BOILER.—Mullins, S. C.—J. B. Blackman, of the Peedee Brick Co., is in the market for the above.

ELECTRIC MOTORS AND HARDWARE.—India.—W. & A. Graham, of Colcutta, are in the market for small motors and hardware.

ENGINE AND BOILER AND BRICK MACHINERY.—Beta, N. C.—The Empire Talc & Kaolin Mfg. Co. is reported in the market for the above.

BREWERY PLANT EQUIPMENT.—Bowling Green, Ky.—W. H. Blakely is understood to be in the market for complete equipment for a new brewery.

100-HP. BOILER.—New Orleans, La.—The American Turpentine & Tan Co., Hibernia Bldg., is reported in the market for 100-HP. boiler, 60 ins. x 18 ft.

WATER-WORKS AND ELECTRIC LIGHT SUPPLIES.—Canadian, Tex.—The Canadian Gin & Milling Co. is in the market for supplies for the above plants.

SUPERHEATERS AND THERMOMETERS.—Cordele, Ga.—C. M. Killian is understood to be in the market for the above, to be used in connection with a dry kiln.

ICE PLANTS.—Picstonsville, Ky.—S. M. Carlisle, Box 8, writes us that he wants to get into correspondence with makers of ice-making plants of 6 or 8 tons capacity.

ELECTRICAL SUPPLIES, COPPER WIRE AND WIRE ROPE.—Strait Settlements.—Erskine, Howorth & Co., Liverpool St., Singapore, S. S., are in the market for the above.

TESTING MACHINERY.—Chattanooga, Tenn.—The Chattanooga Car & Fdy. Co. writes us that it is in the market for machines for testing castings of 20,000 lbs. tensile strength.

GRINDING MACHINERY, 50-HP. ENGINE, 60-HP. BOILER, CONVEYING MACHINERY, FILTERS, ETC.—Beta, N. C.—The Empire Talc & Kaolin Mining Co., F. G. Hoffman, Pres., is reported as in the market for the above for the proposed mining plant.

ALUMINUM SHEETS.—Norfolk, Va.—A. B. Griffin, 102 Charlotte St., writes us that he wants to buy sheets of Aluminum ⅛-in. thick, 12 ins. wide and 24 ins. long, suitable for sign making.

ELECTRIC EXCAVATING MACHINE.—New York, N. Y.—Arthur Koppel, 66 Broad St., writes us that he has been asked by a foreign correspondent for information relating to electric digging machines.

WELL TUBING, ETC.—Liberty, Ind.—C. S. McMahan, of this place, who is planning to build a country home to cost about $12,000, writes us that he wants to get into correspondence with manufacturers of well tubing, etc.

ELECTRICAL SUPPLIES, DAM WORK, ETC.—Wadesboro, N. C.—T. L. Candle, of Wadesboro, is understood to be in the market for electrical supplies for the proposed power plant and electric railway, and also wants to correspond with firms who will build the dam.

BUILDERS' HARDWARE.—Oklahoma City, Okla.—The Territorial Eng. Co., F. H. Peckham, C. E., Secy., writes us that it wants the names and addresses of large hardware firms in the West, as considerable builders' hardware is wanted for the proposed reinforced concrete fire station here.

PILING, STRUCTURAL MATERIAL, CEMENT, ROOFING, SHEET METAL, BRICK, ETC.—Port Chalmette, La.—Jas. Stewart & Co., Contractors, St. Louis, Mo., are in the market for the above in connection with their contract for the new dock, slip and terminals for the New Orleans Terminal Co.

CEMENT BLOCK MACHNERY, PORTLAND CEMENT, ETC.—New York, N. Y.—H. G. Fitz, C. E., 5 East 42d St., writes us that he is interested in the manufacture of cement blocks and wishes data relating to the different branches of Portland cement. Manufacturers of the latter are requested to send catalogues, etc., at once.

CONCRETE BLOCKS AND CONCRETE BLOCK MACHINES.—Chicago, Ill.—C. T. Anderson, Secy. and Treas. Macdonald Eng. Co., Monadnock Bldg., writes us that he wishes information regarding concrete blocks and the machines for making the same. Data regarding the lasting and weathering qualities of the brick and the cost are wanted at once.

WHARF.—Napa Junction, Cal.—Contract for constructing 2,000 ft. long wharf at this place for the Watson Navigation Co. has been let to HEALY, TIBBITTS & CO., 22 Market St., San Francisco, Cal.

LOCKS AND DAMS.—Mobile, Ala.—M. T. Lewman & Co., contractors for the government work on locks and dams in the Warrior and Tombigbee Rivers, are reported to have thrown up their contract.

PORTLAND CEMENT.—Washington, D. C.—Bids received by U. S. Reclamation Service Jan. 10 for furnishing 2,000 bbls. Portland cement for Hondo reservoir project are given under Contract Prices.

DYNAMITE, EXPLOSIVES.—Washington, D. C.—Laflin Rand Co., New York, is stated to have been low bidder at about $74,000, Jan. 16, for furnishing Isthmian Canal Commission with 250 tons of dynamite.

CANAL.—Columbus, O.—Bids are asked by Board Public Works of Ohio until Feb. 11 for improvement of Ohio Canal. First contract involves $75,000 out of $200,000 appropriation. (Advertised, Engineering News.)

DREDGE.—St. Louis, Mo.—Bids are asked until March 17 for construction and delivery of self-propelling hydraulic dredge and ponton pipe line. Capt. Wm. B. Ladue, U. S. Engrs. (Advertised, Engineering News.)

ELECTRIC ELEVATOR.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Feb. 11 for furnishing and installing electric elevator at Navy Yard, Portsmouth, N. H. M. T. Endicott, Ch. Bureau. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

DREDGING.—Norfolk, Va.—Contract for dredging in Appomattox River, bids for doing which were received at U. S. Engineer's Office Dec. 30, is stated to have been let to ATLANTIC DREDGING CO., Philadelphia, Pa.

LUMBER.—Washington, D. C.—Isthmian Canal Commission has awarded contract for furnishing red cypress or redwood lumber, Classes A and B (bids opened Jan. 7), to J. J. MOORE & CO., San Francisco, Cal., for $15,553.

CRANE RUNWAYS.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Feb. 11 for constructing two crane runways in steam engineering foundry at Boston, Mass., Navy Yard. M. T. Endicott, Ch. Bureau. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

LEVEE WORK.—New Orleans, La.—Bids are asked by B. T. Clayton, Q. M., U. S. A, until Jan. 24 for constructing additional levees, repairing existing levees and filling in certain parts of reservation at Fort St. Philip, La.

CULVERTS.—Knoxville, Tenn.—MACK JOHNSON and THOMAS MOORE, Knoxville, have been awarded contracts and have begun work on construction of culverts for 15-mile A., K. & N. extension of Louisville & Nashville Ry.

WIRE, DRILLS, CHUCKS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Feb. 14 for furnishing at Navy Yards, Mare Island, Cal., and Puget Sound, Wash., a quantity of naval supplies, among which are electric wire, armature, transformers, drills, mills, reamers, cedar, fir, oak, chucks, copper pipe, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

STRUCTURAL STEEL.—Boston, Mass.—Bids are asked by Boston Transit Commission, B. Leighton Beal, Secy., 15 Beacon St., until Jan. 26 for furnishing and delivering about 440 tons of structural steel for Sec. 4 of Washington St. tunnel.

PORTLAND CEMENT.—Cincinnati, O.—Bids are asked until Feb. 21 for furnishing about 34,000 bbls. of American Portland cement at Fernbank, O., for use at Dam No. 37, Ohio River. Lt.-Col. E. H. Ruffner, U. S. Engrs. (Advertised, Engineering News.)

MACHINE TOOLS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until Feb. 7 for furnishing machine tools, machinery, steam hammers, handcars, leather belting, hose and miscellaneous supplies. (Advertised, Engineering News.)

LEVEE AND DAM.—Conway, Ark.—Contract for building Faulkner County levee and dam in Arkansas River, near this place, is stated to have been let to DALHOFF CONSTRUCTION CO., Little Rock, Ark., for about $50,000. Work was to commence Jan. 9.

OAK.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Jan. 31 for furnishing a quantity of oak at Navy Yards, Portsmouth, N. H., Boston, Mass., New York, League Island, Pa., and Norfolk, Va. H. T. B. Harris, Paym.-Gen., U. S. N.

DREDGING, DOCKS.—Chicago, Ill.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for dredging and constructing docks in Chicago River. Bids for the work are asked by Col. O. H. Ernst, U. S. Engrs., until Feb. 4, as advertised in Engineering News.

COAL HANDLING MACHINERY, ETC.—Philadelphia, Pa.—Bids are asked by Department Public Works, Peter E. Costello, Dir., until Feb. 2 for construction of coal handling machinery and pockets for Lardner's Point pumping stations Nos. 2 and 3. (Advertised, Engineering News.)

DIKE.—Washington, D. C.—Healy, Tibbitts & Co., 22 Market St., San Francisco, Cal., at $73,800, were low bidders for constructing longitudinal dike at Navy Yard, Mare Island, Cal. Bids for the work were opened by Bureau Yards and Docks Jan. 14, and will be given under Contract Prices.

OIL FIELD DEVELOPMENTS.—Los Angeles, Cal.—Newly incorporated Carlsbad Consolidated Oil Co. has formally organized with Dr. H. Bert Ellis as Pres., and J. M. Kellerman, Gen. Mgr. It is stated that company, which has a $3,000,000 capital, proposes to expend $100,000 immediately in development work.

ELEVATOR.—Washington, D. C.—Following bids were received at office Supervising Architect Jan. 7 for installation of electric passenger elevator and hydraulic freight lift in the U. S. post office at Jacksonville, Fla.: Marine Engine & Machine Co., New York, $6,450; time, May 15, 1905. Otis Elevator Co., New York, $7,285.

ARMOR PLATE.—Washington, D. C.—Bids were opened at the Navy Department Jan. 12 for 7,828 tons of armor plate for battleship "New Hampshire" and armored cruisers "Montana" and "North Carolina." Midvale Steel Co., Philadelphia, was low bidder, at an aggregate bid of $3,128,781, delivery to begin Aug. 15 at the rate of 500 tons a month.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Feb. 7 for furnishing at Navy Yards, Portsmouth, N. H., Boston, Mass., New York, League Island, Pa., Norfolk, Va., and Pensacola, Fla., a quantity of machine tools, as follows: Surface planer, tool grinder, emery wheel grinder, wood trimmer, tenoning machine, drill, engine lathe, dredging pump, locomotive boiler, self-oiling engine, swinging engine, water heater, suction frame, suction shoe, engine lathe, speed lathe, metal planer, milling machine, shaper, drills, grinders, grindstone frame, line shaft and motor; motor drive outfits for various machine tools,

planer, key-seating machine, drill, engine, lathe, turret lathe, sprue saw, pipe-cutting machine, grinder, hoisting engines, oil-fired heating furnace, mining pump, electric launch equipments, dust-collecting systems, pipe-cutting machine, pipe-expanding machine, pipe bender, hydraulic furnace jack, forcing press, straightening press, bushing press, and hydraulic accumulator. H. T. B. Harris, Paym.-Gen., U. S. N.

STEEL CARS.—Columbus, O.—Pittsburg, Cincinnati, Chicago & St. Louis Ry. (Pan Handle) has placed an order for 4,000 steel cars with the CAMBRIA STEEL CO. and STANDARD CAR CO., for delivery in February and March, 1905. The order entails an expenditure of $4,500,000, and there will be 1,500 all-steel self-cleaning hopper cars, 1,500 drop-bottom cars and 1,000 straight gondola cars.

TILE DRAIN.—Pana, Ill.—We are informed that all bids received Jan. 14 by Commissioners of Drainage District for dredging about four miles of main ditch, were considered too high and were rejected. The Commissioners decided to lay a tile drain in place of dredging, and bids for it will be received at Pana, Ill., Feb. 11. A. B. Alexander, 154 S. Water St., Decatur, Ill., is Engr. in Charge. Lowest bid for dredging was submitted by C. F. Adams, Pana, Ill., and amounted to about $5,250.

MACHINERY.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Feb. 14 for furnishing at Navy Yards, Mare Island, Cal., and Puget Sound, Wash., a quantity of naval supplies, among which are pneumatic drill and boring machine, band saw, bed surfacer, precision lathe, planer, boring and turning machine, filing machine, radial drill press, electric forge, bench grinder, arbor and mandrel press, sheet metal workers' shear, "Universal" vise, chucks, combined saw and dado machine. H. T. B. Harris, Paym.-Gen., U. S. N.

PORTLAND CEMENT.—Washington, D. C.—Following bids, per barrel, were received at office Chief Engineer, Reclamation Service, U. S. Geological Survey, Washington, Jan. 10, for furnishing 2,000 barrels, more or less, of Portland cement, to be delivered at Roswell, N. Mex., for use in connection with the construction of the Hondo project: Western Cement Selling Co., Denver, Colo., "Ideal," $2.95; "Iola," $2.83. Atlas Portland Cement Co., New York, N. Y., in barrels, at $3.39; in duck bags, at $2.99. The Portland Cement Co., Denver, Colo., $2.95.

BARGES AND BOATS.—St. Louis, Mo.—Following bids per barge or boat were received Jan. 4 by Major Thos. L. Casey, U. S. Engrs., for furnishing (1) wooden flat barges or (2) wooden flat boats: Monongahela River Consolidated Coal & Coke Co., Pittsburg, Pa., (1) white pine, $10,136, fir, $9,205, (2) white pine, $1,344, fir, $1,230; Jacob Salem, New Orleans, La., (1) $9,100, (2) $1,700; West Pascagoula Creosoting Works, Gautier, Miss., (1) $9,090, (2) $1,690; Howard Ship Yards Co., Jeffersonville, Ind., (1) $5,770, (2) $860. For furnishing steel flat boats following bids per boat were received: Thos. Carlin's Sons Co., Allegheny, Pa., $1,325; American Bridge Co. of N. Y., New York, $1,195; Muskegon Boiler Works, Muskegon, Mich., $1,725; The National Dry Kiln Co., Indianapolis, Ind., $1,575; Dubuque Boat & Boiler Works, Dubuque, Ia., $2,164; Ellicott Machine Co., Baltimore, Md., $1,584; The Johnson Iron Works, Ltd., New Orleans, La., $2,100; The Springfield Boiler & Mfg. Co., Springfield, Ill., $1,337; Howard Ship Yards Co., Jeffersonville, Ind., $1,697; The Carroll-Porter Boiler & Tank Co., Pittsburg, Pa., $1,465. It was recommended that contract be awarded to Howard Ship Yards Co. for four flat barges and 30 wooden flat boats.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

BARRACKS.—Chihuahua.—The plans of General Jose Maria de la Vega, Commander of the Second Military Zone, with headquarters in this city, have been approved for the new barracks, hospital and other buildings, which are to cost $250,000. Surveys will be made in March.

VIADUCT.—Guadalajara.—A concession has been granted for the construction of electric tramway system in this city, as mentioned elsewhere in this column, and it is stated that city will use first instalments of sum received for the concession in erecting arch viaduct over San Juan de Dios River. Concession was sold for $400,000, to be paid in eight instalments.

ELECTRIC LIGHTING.—City of Mexico.—Mexican Electric Co., represented by Francis Neugebauer, and Mexican Light & Power Co., represented by Charles H. Cahan, have obtained a modification of the contract of Aug. 31 last for the lighting of the City of Mexico. The modified contract extends the time for furnishing light to Feb. 13, 1917. By the terms of the contract the aerial installations shall be substituted by subterranean cables within six months from Nov. 9 last. The actual 987 arc lamps shall be increased at the contractors' cost to 1,200, of which 100 shall be of 2,000 c. p. and 113 of 1,200 c. p.

TUNNEL.—Guanacevi, Durango.—The Guanacevi Tunnel Co., recently organized with a capital of $5,000,000, gold, will commence work soon on the long tunnel they are to drive in the Guanacevi mining district, in the state of Durango. The tunnel is to be 10,000 ft. in length, and at one point 2,200 ft. below the surface, and, it is stated, over 200 known veins of silver, gold and copper ore will be cut in the driving. The tunnel is to be 8 ft. high and 12 ft. wide, and will have a double tramway track for its entire length. The officers of the company are Hilario Losoya, Pres., at Guanacevi, and Fred. Griese, Treas., at Parral.

MALT FACTORY.—City of Mexico.—Concession for the erection of a malt factory obtained some months ago by Domingo Barrios Gomez, and which has been referred to in our columns, has been transferred to Leon S. Kuhn, of the firm of Strauss, Kuhn & Co., by the concessionaire, who retains a 20% interest in the enterprise. It has been decided to build the factory in the City of Mexico, instead of in Queretaro, as first proposed, and the building will be on the Viga Canal, adjoining the distillery of Strauss, Kuhn & Co. The building will be constructed without delay. The total cost of the plant will be about $200,000.

UNDERGROUND TELEPHONE SYSTEM.—City of Mexico.—T. F. Maguire, Gen. Mgr. Mexican Telephone Co., is stated to be getting estimates on the cost of material, labor, etc., for the laying of the underground telephone system for the city. It is said that the contracts will probably be made very soon, if the prices for the work are satisfactory, but if not the company will do the work itself. A portion of the lines will still be overhead, but all the old wires will be replaced by new ones. The 80 substations will also be replaced with new installations, and their number will be doubled. An entirely new and modern switchboard will be placed in the central office.

ELECTRIC TRAMWAYS.—Guadalajara, Jalisco.—The concession for electric tramways in Guadalajara has been granted to "La Electra" Co., owner of the principal urban and suburban lines, and also the owners of one of the electric light and power plants supplying the city. The "Electra" Co. will construct a large hydro-electric plant to increase their power. This plant has been referred to previously in our columns. About 30 miles of track material will be required, the present rails being too light for the electric traction. Mariano Schiaffino, of Guadalajara, is in charge of the electric department of the company, and Juan Negrete is superintendent of the tramway lines. Motor cars and other material will also be required.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

WHARF.—Philippines.—Contract for building new wharf at Corregidor Islands, Manila, has been let to ATLANTIC, GULF & PACIFIC CO., for about $20,000.

RAILROAD.—Philippines.—Carlos Paoli, Iloilo, is stated to be the prime mover in a project for building a 40 kilometer road to connect Iloilo with the towns and plantations of the interior.

SEA-WALL, WHARF, ETC.—Hawaii.—Bids are asked by C. S. Holloway, Supt. Pub. Wks., Honolulu, until Feb. 4 for construction of sea wall, wharf, shed, offices and paving for Brewer's Wharf, Honolulu. Work will cost about $40,000.

SANITATION.—Cuba.—President Palma has signed the Sanitation bill, which appropriates $326,000 for the cleaning and general sanitation of various cities in eastern Cuba. The Cuban Senate has passed an additional sanitation bill which provides that every port town shall be cleaned.

RAILWAY.—Alaska.—Hugh T. Burke, Jacob Furth and W. D. Heflus, Seattle, Wash., are reported interested in a project for the construction of a railroad from Valdez through the Copper River Valley to a point on the American Yukon. Articles of incorporation are to be taken out soon for a company capitalized at $5,000,000.

IRRIGATION AQUEDUCT.—Hawaii.—We are informed that contracts will be let March 1 for an irrigation aqueduct at Kohala, Island of Hawaii. The aqueduct is to have a capacity of 70,000,000 gallons per day, is to be 20 miles long and will cost $500,000. M. M. O'Shaughnessy, 193 Crocker Bldg., San Francisco, Cal., is in charge.

FOREIGN CONTRACTS—EXPORT NEWS.

The names of parties awarded contracts are printed in capital letters.

SEWAGE DISPOSAL WORKS.—England.—Town of Huddersfield has secured Local Government Board sanction to borrow $675,000 for extension of sewage disposal works.

ELECTRIC PLANT.—England.—Town Council of Torquay is considering borrowing of $210,000 for erection and equipment of new electric plant. F. St Hex is Town Clk., and H. A. Garrett, Borough Engr.

ELECTRIC RAILWAY.—Switzerland.—Concession for a narrow-gage electric railway from Meiringen to Gletch has been granted to M. R. Vontobel, of Winterthur, and M. C. Probst, of Lucerne. Estimated cost of road is about $1,200,000.

PIER EXTENSION, DREDGING, ETC.—Ireland.—Bids are asked by H. Williams, Secy., Pub. Wks., Dublin, until Feb. 11 for work at Downies Bay, County Donegal, consisting of an extension of the existing pier, dredging, rock excavation, etc.

RAILWAY.—Switzerland.—A decree has been published authorizing the Rhaetian Railway Co. to construct a narrow-gage line from Samaden to Pontresina. The total cost of the enterprise is estimated at $192,200, of which $57,200 is to be expended on rolling stock.

STEEL RAILS, FISH-PLATES.—Australia.—Bids are asked by T. S. Pratten, Secy., Commissioner for Railways Office, Brisbane, Queensland, until March 7 for 2,000 tons steel rails and 168 tons steel fish-plates. Office of Agent-General for Queensland is at 1 Victoria St., London, England.

RAILWAY.—South Africa.—Contract for construction of a railway from Springs to Witbank, in Central South Africa, has been secured by WILLIAM DALRYMPLE, EDWARD HOPPER, WILLIAM HENRY DAWE and JAMES BUTLER, of Johannesburg. Four months is allowed to the above syndicate for the formation of a company with a capital limited to $1,500,000.

RAILWAY.—India.—The Secretary of State has sanctioned construction of the first section of the proposed Nagda-Muttra Railway, from Nagda Junction northwards to the crossing of the Chambal River, a distance of 141¼ miles. The railway, which will be made as a State line, has been placed under the control of the Director of Railway Construction. J. L. P Hogan is the Engineer-in-Chief, with headquarters at Kotah.

RAILWAY SUPPLIES.—Egypt.—Frederick G. Morgan, U. S. Vice-Consul General in Charge, Cairo, reports that the railway companies of Egypt are preparing to spend a large sum of money in improving their lines, by building bridges and laying new rails. He suggests that if American manufacturers wish to furnish materials for these improvements an American agent should be sent at once to Cairo with samples of rails and other railway supplies.

INDUSTRIAL NOTES.

THE THOMSON METER CO., 79 Washington St., Brooklyn, N. Y., states that its sales of meters in 1904 was 21,068, making a total number sold to date of 269,112.

EDWIN H. LUDEMAN & CO., 39 Cortlandt St., New York, announce that it has succeeded to the business of Edwin H. Ludeman and will continue as agents for Robt. Wetherill & Co., builders of Corliss engines; the Fitchburg Steam Engine Co.; Houston, Stamwood & Gamble Co., makers of slide valve engines, etc.

THE BUCYRUS CO., of South Milwaukee, Wis., has an order from the Oliver Iron Mining Co. (the constituent company of the United States Steel Corporation which controls the latter's Lake Superior mines) for 14 special 90-ton steam shovels, to be delivered in the spring. It is believed that this is the largest single order for steam shovels ever placed. The company is also building 14 steam shovels for work on the Panama Canal.

THE ELECTRIC CONTROLLER & SUPPLY CO., Cleveland, O., has placed Mr. Geo. Magalhaes in charge of its eastern office at 136 Liberty St., New York. Mr. Magalhaes is a graduate of the Columbia University and has been connected with the Engineering Department of the company for some time. The company's chief products are reversing controllers, solenoids, lifting magnets, magnetic switch controllers for reversing or non-reversing motors driving heavy machinery, direct connected variable speed motor drive for planers, etc.

THE THOS. J. BRADY CO. has recently been organized by a number of gentlemen formerly connected with the New York Building Department, to carry on a general contracting business, with offices in the Townsend Building, at 1123 Broadway. Mr. Thos. J. Brady, the president of the company, was long Superintendent of Buildings in the old City of New York, and after the organization of the Greater New York, he served as Commissioner of Buildings for the Borough of Manhattan, and was the first President of the Board made up of the Building Commissioners of the several boroughs. He has been in for some years President of the Coplay Cement Co., Allentown, Pa. The secretary of the company is John Guilfoyle, who was Building Commissioner for the Borough of Brooklyn under Mayor Van Wyck. The treasurer and chief engineer of the company is Mr. W. W. Ewing, who was Engineer of Tests in the New York Building Department from 1896 till 1902, when he resigned to become chief engineer of a Spanish Portland cement company. He returned from Spain a short time ago, having completed the works which he went there to construct, and has now associated himself with the above-named company.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

RAIL ANCHORS.—The Holland Co., 77 Jackson Boulevard, Chicago. Paper; 3½ × 6¾ ins.; pp. 4; illustrated.

These devices are for preventing the creeping of rails at bridges, crossings, etc., or on the open track. They grip the rail base and bear against the sides of the ties.

CENTRIFUGAL PUMPS.—United Iron Works, 32 Fremont St., San Francisco, Cal. Paper; 6 × 9 ins.; pp. 12; illustrated.

This relates to pumps with horizontal and vertical shafts, with particulars of dimensions, speed, capacity and price. Pumps for handling sand, gravel and mill tailings are included.

GAS AND GASOLINE ENGINES.—Marinette Gas Engine Co., Chicago Heights, Ill. Paper; oblong; 9 × 7 ins.; pp. 48; also two folders; all illustrated.

The Walrath engines are of the vertical type, with one, two or three cylinders, and ranging from 4 HP. to 250 HP. The construction and special features of the engines, and their applications to various purposes are described, while a number of engines are illustrated.

LOCOMOTIVE CRANES.—American Hoist & Derrick Co., St. Paul, Minn. Paper; 8 × 11 ins.; pp. 4; illustrated.

A general description of the company's locomotive cranes is given, with a list of some of the important railways, industrial plants, etc., which are using them. They are fitted for general hoisting work or for handling excavating buckets.

ELECTRIC BLUE-PRINT MACHINE.—The Keystone Blue Paper Co., 910-912 Filbert St., Philadelphia. 6 × 9 ins.; pp. 8.

The electric blue printing machine here described has a hydraulic lowering device for the lamp so that the rate of lowering and time of exposure is regulated by simply turning a valve. The lamp is fitted with reflecting screens above and below it to concentrate the light upon the surface of the tracing and cut off the light while the frame is being loaded.

AIR POWER.—The Rand Drill Co., 128 Broadway, New York City. 7 × 10 ins.; pp. 15.

This is Volume 1, No. 1, of a periodical which is to be issued quarterly by the Rand Drill Co., under direction of Mr. P. F. Kobbe, advertising manager, "to show our friends and those whom we would like to serve what we are doing." Among the interesting illustrations is a picturesque view of the line of driven wells and weir at the water supply plant of Atlantic City, N. J.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 17, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 28th day of February, 1905, and then opened, for the construction complete of the U. S. Post Office at Louisiana, Missouri, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Postmaster at Louisiana, Missouri, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 3-2t

REPAIR OF BRIDGE.

Binghamton, N. Y.

Sealed proposals for repairing Tompkins street bridge in the city of Binghamton, according to the plans and specifications for the work, made by A. H. Sutermeister, Engineer, and on file with the City Clerk, will be received by said Clerk up to February 7, 1905, at 8 P. M. All proposals must be plainly marked and addressed to said clerk, and be accompanied by certified check, or New York draft for 5% of the bid payable to order of said Clerk, which check or draft will be held by the city as security that the party to whom contract is awarded will enter into the same and give a bond to the city for 25% of the contract price, with sureties to be approved by the Mayor, conditioned for the faithful performance of the contract. The city reserves the right to reject any or all bids. D. C. HERRICK,

City Clerk.

Dated January 19, 1905. 3-2t

For other Proposal Advertisements see pages 35, 36 and 37 of Advertisements